SAINTCON
OFFICIAL MINIBADGE

Assembly Guide 2023

This guide provides assembly
instructions and guides for
Official SAINTCON MiniBadges.

RARITY: This term is a little subjective, but is based on the following general guidelines:

500+ Available - Very Common
300 - 500 Available - Common
200 - 300 Available - Uncommon
100 - 200 Available - Rare
100 or fewer - Super Rare
10 or fewer - Not Included

DIFFICULTY: This is the basic definition of assembly difficulty:

BEGINNER: Generally uses large components, and with some basic soldering skills, this badge should be simple to assemble for most people.

INTERMEDIATE: Badges with this rating should not scare you away from assembling them. They get this rating when they use smaller components that might require a little more attention or steady hand to assemble. This could also indicate some level of complexity.

ADVANCED: Badges with this rating are generally for those with more refined soldering skills. Components are generally small and require a very steady and nimble hand to solder manually. We still encourage you to try. Using solder-paste and an oven can make this easier.

TYPES: We have done our best to compile in this guide an assembly guide for all known Minibadges.
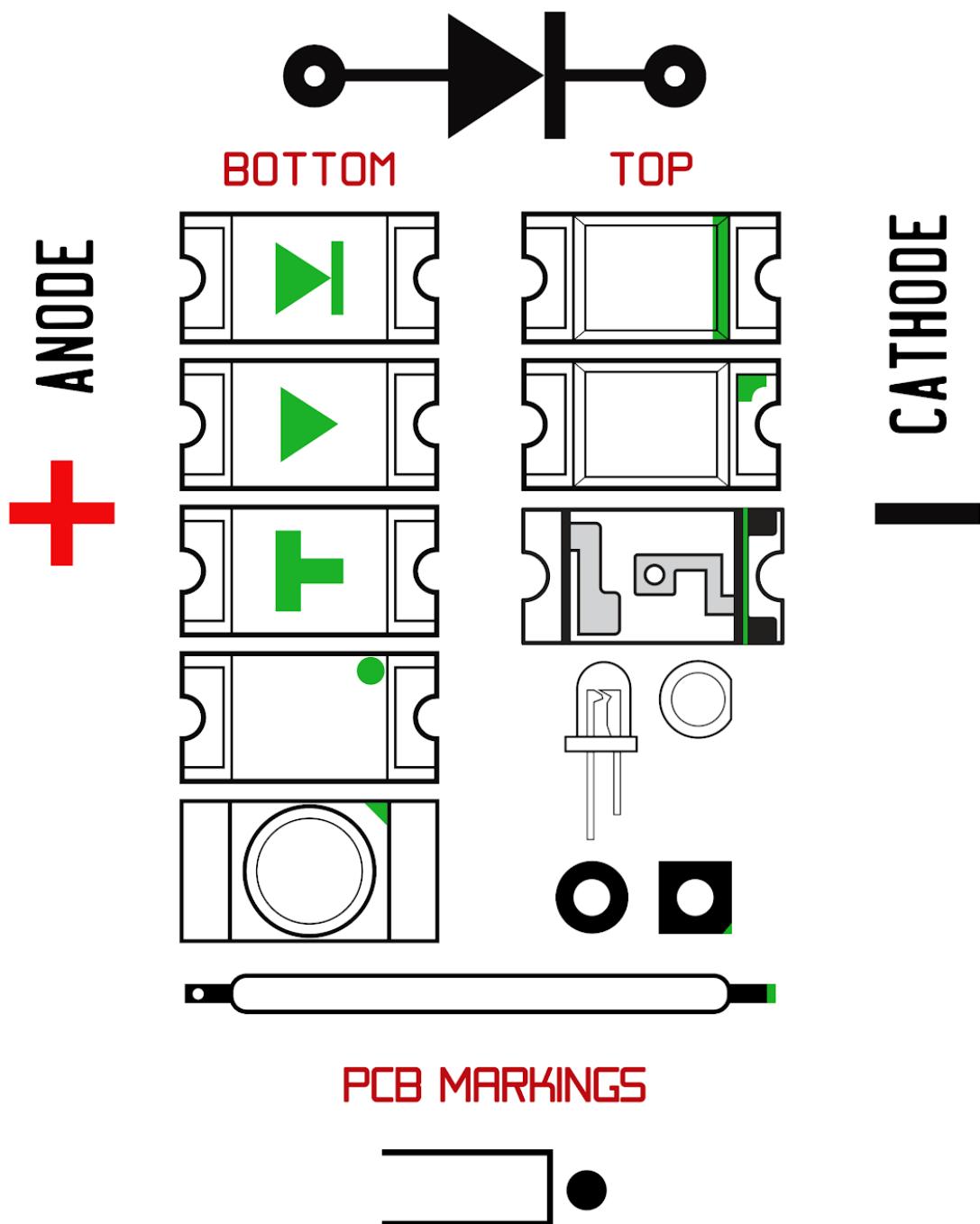
These badges fall into the following categories:

OFFICIAL: Badges designed specifically for the conference, and are acquired as part of the efforts to participate and explore what the conference has to offer.

SPONSOR: Badges designed by/for our proud sponsors. We are excited to see more sponsor minibadges than ever before.

PERSONAL: Many minibadge creators are super proud of their works, and are bringing badges to the conference for trading or to use for networking with people. These are not supported directly by the conference, but are featured here for convenience and assembly help.

LED ORIENTATION GUIDE

ANODE

+

CATHODE

|

PCB MARKINGS

HAND SOLDERING:
NEVER SOLDER SMD COMPONENTS ABOVE 350°c.
**SOLDERING ABOVE THIS TEMPERATURE WILL CAUSE DAMAGE!**
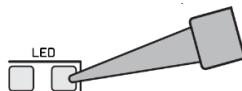
When hand-soldering Surface Mount Devices (SMD), the easiest method is to solder one-pad at a time, and It's called the Single-Pad Soldering Method.

Here's how it works:

SINGLE-PAD
SOLDERING
METHOD

Regardless of how many contacts there are, it is important to only ever add solder to ONE PAD until the component is attached to the board. For example, with a standard LED here is how you would complete this process:
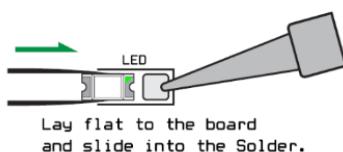
1. Use the soldering-iron to heat up and add a SMALL dab of solder to one side of the attachment pads
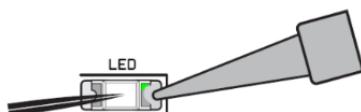

2. Use tweezers to carefully hold the LED with one side of the exposed contacts sticking out. For LEDs be sure to use the right orientation to avoid attaching the component backwards.
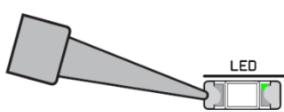

3. Re-Heat the solder placed on the single-pad with the iron, and carefully slide one side of the LED component into the molten solder.

Lay flat to the board
and slide into the Solder.

4. Remove the heat, and allow the component to connect to the board. Once attached, use tweezers to gently rest on the top of the LED, and reheat the solder one last time. This will allow the component to settle flat to the board.

5. Once attached and flat to the board, use the iron to add a SMALL dab of solder to the other side of the LED to complete the attachment. Very little solder is needed.

SAINTCON MINIBADGE

OFFICIAL MINIBADGES

The following badges are contributed by various minibadge creators and are included here for reference. Any issues with these badges should be referred to the creator.

OFFICIAL BADGE	SPONSOR BADGE	COMMUINITY BADGE	EVENT BADGE
CONTEST BADGE	AWARD BADGE	PERSONAL BADGE	BADGE ACCESSORY
	OTHER/ AFFILIATE BADGE		
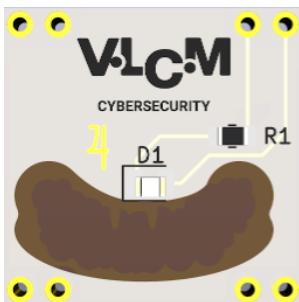
OFFICIAL	SPONSOR	COMMUNITY	EVENT	CONTEST	AWARD	PERSONAL	BADGE ACCESSORY
1	7	18	14	8	0	135	6
							OTHER
							3

SPONSOR MINIBADGE

VALCOM SPONSOR BADGE

Designed By: Jup1t3r

We could not be more excited to have Valcom ("VLCM") back again this year and partner with us at this level. Their Minibadge design is of a rabid ferret, which is Valcom's Cybersecurity mascot.

BACK

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?
To get one of these MiniBadges, please visit the Valcom booth in the expo center.
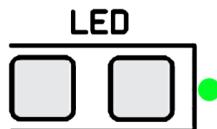
RARITY:

COMMON

ASSEMBLY INSTRUCTIONS:
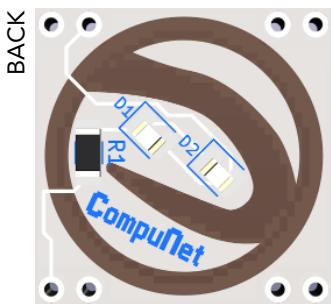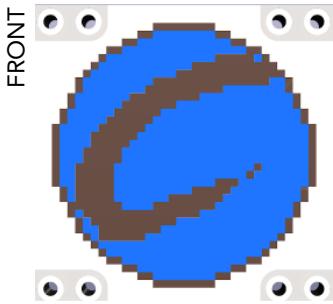
- DO NOT SOLDER THESE LED's AT OVER 300 DEGREES CELSIUS OR THEY WILL MELT!
- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:
0805 LED
0805 RESISTOR
FR4 PCB
2-Pin Pin Headers

SPONSOR MINIBADGE

COMPUNET SPONSOR BADGE

Designed By: Jup1t3r

Compunet is back again as one of this years amazing Sponsors.

DIFFICULTY:

BEGINNER

RARITY:

COMMON
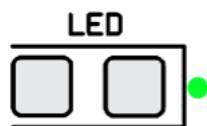
HOW DO I GET ONE?

You can obtain this MiniBadge by visiting the Compunet Sponsor Booth and interacting with their staff.

ASSEMBLY INSTRUCTIONS:

- DO NOT SOLDER THESE LED's AT OVER 300 DEGREES CELSIUS OR THEY WILL MELT!
- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED
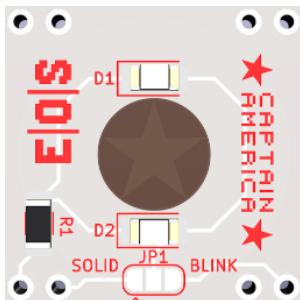
PARTS USED:
0805 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

SPONSOR MINIBADGE

EOS SPONSOR BADGE

Designed By: Jup1t3r

EOS is another one of our great sponsors this year.

DIFFICULTY:

BEGINNER

RARITY:

COMMON
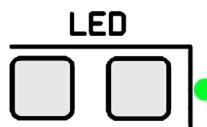
HOW DO I GET ONE?

You can obtain this MiniBadge by visiting the EOS Sponsor Booth and interacting with their staff.
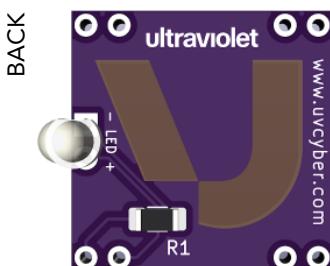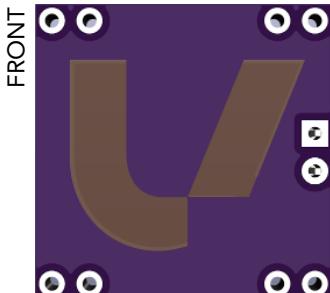
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

SPONSOR MINIBADGE

UltraViolet SPONSOR BADGE

Designed By: Jup1t3r

UltraViolet is one of our newest sponsors.

DIFFICULTY:
BEGINNER

RARITY:
COMMON

HOW DO I GET ONE?
Get one of our unique badges by visiting our booth in the vendor area.
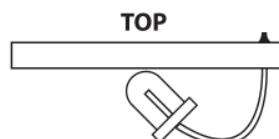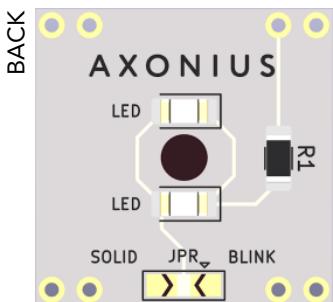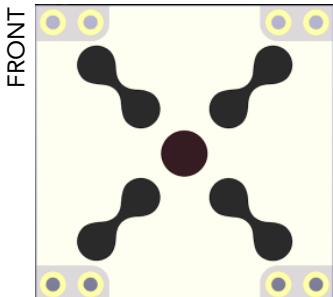
ASSEMBLY INSTRUCTIONS:

• Solder the LED as indicated in the picture, leave the lead wires long enough to bend the LED over to be in the middle of the badge.
• Solder on the resistor
• Solder on the header pins

BOARD/LED TYPE:

TOP

PARTS USED:

5mm THT LED
1206 SMD Resistor
FR4 PCB
2-Pin Pin Headers

SPONSOR MINIBADGE

AXONIUS SPONSOR BADGE

Designed By: Jup1t3r

AXONIUS is another one of our amazing sponsors for this year.

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?

Visit their booth to get one!
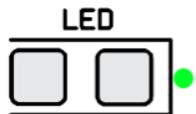
RARITY:

COMMON

ASSEMBLY INSTRUCTIONS:
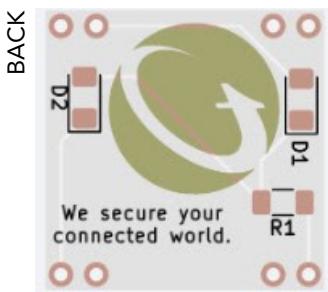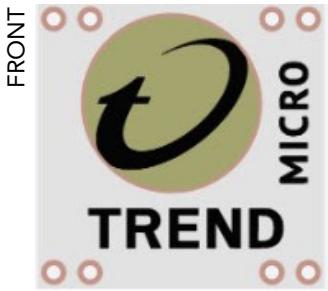
- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.
- Solder the Jumper at the bottom of the board to contact 2 pads.

(The pads you solder on the bottom will either make the lights on the badge blink or be solid on.)

BOARD/LED TYPE:

PARTS USED:

0805 LED
0805 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

SPONSOR MINIBADGE

Trend Micro 2023

Designed By: Trend Micro 2023

There is a single resistor for this minibadge, it is small but can be soldered in either orientation. The LED is mounted with the "green mark" face so it will go into the "garage" or the 3 sided rectangle. You can find an assembly video at https://bit.ly/48t5MS5 .
The badge has 2 LED's and functions on the "clock standard" so it will alternate the lights

DIFFICULTY:

BEGINNER

RARITY:

RARE

HOW DO I GET ONE?
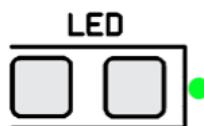
Trend Micro has a sponsorship booth at Saintcon this year. You can obtain this badge by visiting their booth and interacting with any of their staff.

ASSEMBLY INSTRUCTIONS:

The LED is mounted with the "green mark" face so it will go into the "garage" or the 3 sided rectangle. They will go into the D1 and D2 labels. Resistor goes into the spot labeled R1. The resistors do not require a specific orientation . The "top side" that has the number on it is what should be showing when you solder it to the board.

You can find an assembly video at https://bit.ly/48t5MS5

BOARD/LED TYPE:

LED
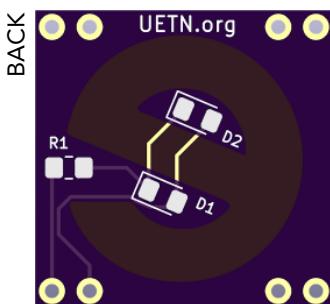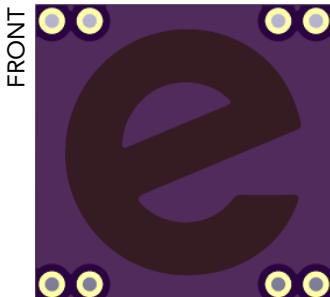
PARTS USED:
Qty 1 - 1206 10M SMD Resistor 100R (AliExpress)
Qty 2 - 1206 SMD LED (Red) (AliExpress)

FRONT

BACK

SPONSOR MINIBADGE

UETN Sponsor Badge

Designed By: Jup1t3r

UETN is a fundamental partner to SAINTCON and it's origins.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?
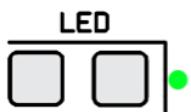
Find a UETN employee and ask for one.

ASSEMBLY INSTRUCTIONS:

Standard SMD soldering

BOARD/LED TYPE:
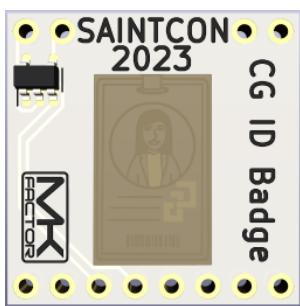
PARTS USED:

FRONT

BACK

OFFICIAL GAME MINIBADGE

Attendee Minibadge (and other badge game minibadges)

Designed By: MK Factor

This is the official attendee minibadge for 2023. It's part of the badge game and has an EEPROM on the back so that the badge can identify it. There isn't an LED since the badge itself has RGB LEDs to illuminate the game minibadges. For all the official game minibadges, you'll only need to solder the pins. The EEPROM is already soldered and programmed. There are many other game-related minibadges that are assembled the same way.

DIFFICULTY:

BEGINNER

RARITY:

COMMON

HOW DO I GET ONE?
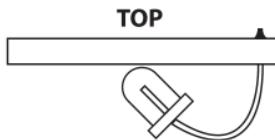
This one is included with the badge, but there are lots of other game-related minibadges that you can only get by playing the badge game!
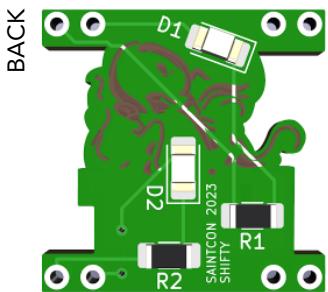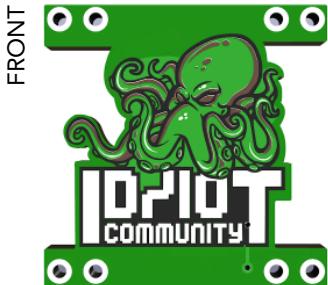
ASSEMBLY INSTRUCTIONS:

Solder the pins to the back of the minibadge. When inserted into the badge, the RGB LED on the badge should light up indicating that it can read the EEPROM on the minibadge.

BOARD/LED TYPE:

TOP

PARTS USED:

COMMUNITY MINIBADGE

ID/10T COMMUNITY BADGE

Designed By: SHIFTY

Industrial Devices and IoT together make an interesting challenge you should explore.

DIFFICULTY:

BEGINNER
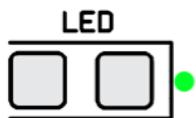
RARITY:

COMMON

HOW DO I GET ONE?
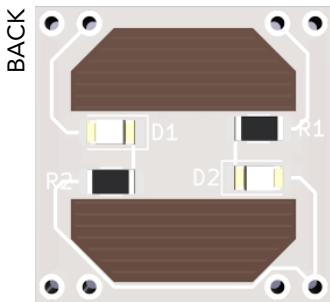
If you're interested in learning about control systems and how they work, as well as discussing the security implications of these systems, come visit our community and get one of these unique badges.

ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

COMMUNITY MINIBADGE

SPACE COMMUNITY CUBE SAT BADGE

Designed By: Jup1t3r

Come learn how to decode data being transmitted and attempt to send commands to the satellite and see its response on the display. We will feature a large display with real-time images of a simulated satellite orbiting the earth.

DIFFICULTY:

BEGINNER

RARITY:

COMMON

HOW DO I GET ONE?

Visit our community to claim one of these badges.
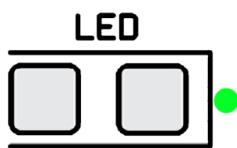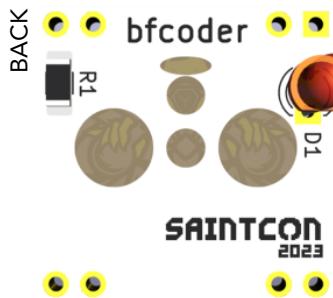
ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistors using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

COMMUNITY MINIBADGE

HOMELABS COMMUNITY BADGE

Designed By: bfcoder

Derived from a SAINTCON talk in 2019, it has grown to a large following of hardware and software enthusiasts, hackers, recyclers, coders, network people, and pretty much everything in-between.

DIFFICULTY:

BEGINNER
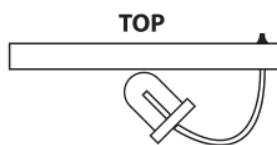
RARITY:

COMMON

HOW DO I GET ONE?
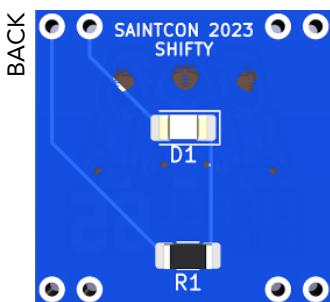
The only requirement is that you bring yourself and your curiosity. We'll take care of the rest.

ASSEMBLY INSTRUCTIONS:

- Solder the LED as indicated in the picture, leave the lead wires long enough to
- Bend the LED over to be in the middle of the badge.
- Solder on the resistor
- Solder on the header pins

BOARD/LED TYPE:

PARTS USED:
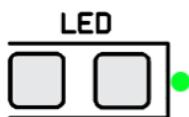
3MM THT LED LED
1206 SMD RESISTOR
FR4 PCB

FRONT

BACK

COMMUNITY MINIBADGE

BLUE TEAM COMMUNITY BADGE

Designed By: SHIFTY

The Eiffel 65 Community will examine what the defensive side of security encompasses. Come peel back the layers of the defensive onion and explore the depths of defensive cyber disciplines.

DIFFICULTY:
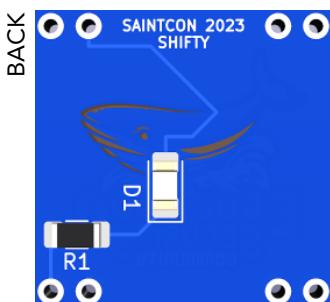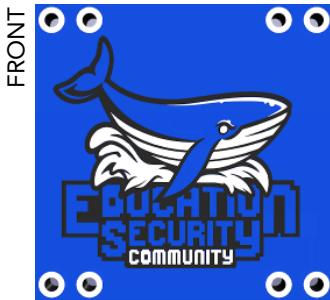
BEGINNER

RARITY:

COMMON

HOW DO I GET ONE?

Details are still being worked out, but to collect our MiniBadge, come visit our booth for more details on how get this cool MiniBadge.

ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

COMMUNITY MINIBADGE

EDUCATION SECURITY COMMUNITY

Designed By: SHFITY

From the folks at UEN. Our community will focus on the security needs and collaboration that is helpful for our K12, higher education and library educational communities. Presentations, walk-ups and hands-on workshops will focus on open discussions and real-world cybersecurity experiences in the education environment.

DIFFICULTY:

BEGINNER
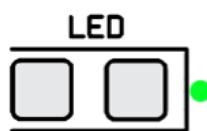
RARITY:

UNCOMMON

HOW DO I GET ONE?

Come to one of our discussions.
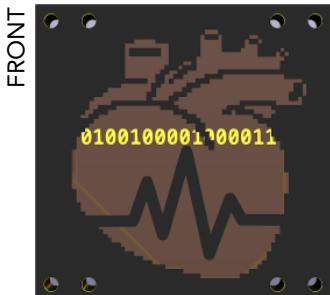
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT
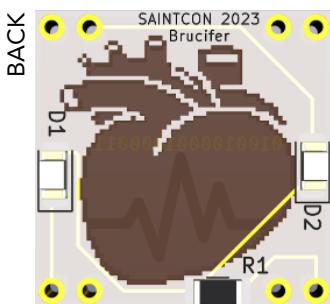
COMMUNITY MINIBADGE

HEALTHCARE HACKING COMMUNITY BADGE

Designed By: Brucifer

The Health Care Hacking Community is a location for conference attendees to gather to learn and share information on the state of health care cybersecurity and how it intersects with personal health.

BACK

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?
Come visit our community and particpate!
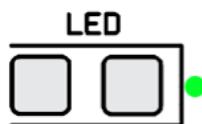
RARITY:

COMMON

ASSEMBLY INSTRUCTIONS:
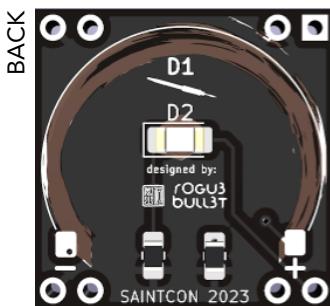
• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

COMMUNITY MINIBADGE

HARDWARE HACKING COMMUNITY BADGE

Designed By: rogu3bull3t

The Hardware Hacking Community is back with the name you've known us by for years! The HHC is "The Place" to come to solder, repair, learn, and destroy electronic-based hardware.

This badge is meant to be a companion to the Beginning Soldering classes with a Portal theme.

DIFFICULTY:

INTERMEDIATE
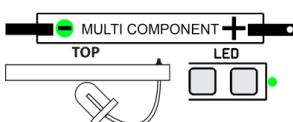
HOW DO I GET ONE?
Visit the Hardware Hacking Community table.

RARITY:

COMMON

ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Filament LED. The Side with a hole in it is the Positive (Anode) side. See Image below.
• Solder the Pin Headers to the Badge.

Start with the smallest components first, the resistors, then the SMD LED. The easiest way to put the flexible LED on is to carefully bend the leads at a 90* angle, this shortens the lead and helps keep them out of the way of the headers.

https://youtu.be/_L1SkQZLtTE

BOARD/LED TYPE:

PARTS USED:
38mm 2200k flexible filament LED https://a.co/d/bGpl4z0
Blue SMD 1206 LED
1206 10R

FRONT

BACK

COMMUNITY MINIBADGE

TAMPER EVIDENT COMMUNITY BADGE

Designed By: SHIFTY

If a container or object is "Tamper Evident" it is designed to make it obvious if someone has opened or modified it. Tamper evident seals, and devices we rely on are like any other security control, they have vulnerabilities.

The Tamper Evident community is all about bypassing these security devices without leaving any physical proof behind. This involves using heat, chemicals, brute force, and a keen eye for imperfections.

DIFFICULTY:

BEGINNER
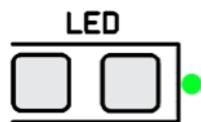
RARITY:

COMMON

HOW DO I GET ONE?
Come Participate on our challenge.

ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

21

FRONT

BACK

COMMUNITY MINIBADGE

LOCKPICK COMMUNITY BADGE

Designed By: Jup1t3r

Lock Picking is a security "right of passage". Your journey begins here!

Whether you are new or experienced with lock picking, the Lock Picking Community is a must stop. This is a great skill to help you learn about physical security and that everything has vulnerabilities. We will have lock picking instructions, challenges, and plenty of practice time for you to learn and develop your skills.

DIFFICULTY:

BEGINNER
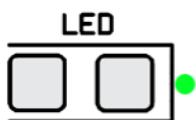
RARITY:

COMMON

HOW DO I GET ONE?
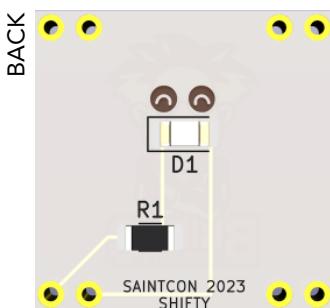
Come and Level up in the lockpicking community. As you Level up your skills, this badge has replaceable belts that will take you thorough the lockpick belt system. See how far you can level up while your at the CON!

ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Make sure to solder the LEDS in the indicated spots on the board.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge in the 4 corners only.
- The additional 2 center pins are for belts you earn along the way.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

COMMUNITY MINIBADGE

BRIEFS COMMUNITY BADGE

Designed By: SHIFTY

Every security topic you can imagine, but in ONE community.

Briefs is for short presentations (5-10 minutes, hard stop at 10 minutes). If you have a cool home lab, or project at work to brag. Might not be full 30-60 minute presentation, so give it 10 minutes and share what you learned.

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?

Come to one of our sessions and let every know you have been BRIEFED on the latest.
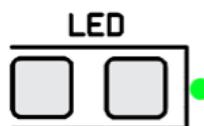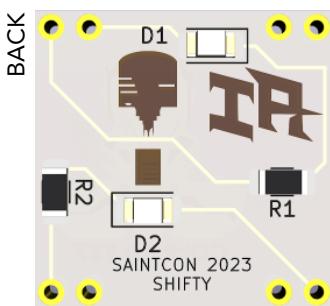
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

COMMUNITY MINIBADGE

AI COMMUNITY BADGE

Designed By: SHIFTY

Come to the AI Community to get hands-on with some of the latest AI tech available including Chat GPT 4, Bard v2, and Dall-e, Midjourney, and other ground-breaking models.

Get new project ideas or learn ways to potentially exploit and defend an AI system. Find out how to get started building your own AI assistant. Explore AI ethics and concerns and enjoy fun conversation on related movies, and debate which way the world will end.

DIFFICULTY:
BEGINNER

RARITY:
COMMON

HOW DO I GET ONE?
Come and partcipate and lean about the latest in AI.
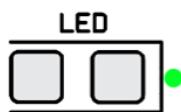
ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.
• D2 LED Blinks with the clock.

BOARD/LED TYPE:

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

COMMUNITY MINIBADGE

APPLICATION SECURITY COMMUNITY BADGE

Designed By: SHIFTY

Applications run everything, and we run the Applications. Join us!

In the Application Security Community, we will show you the importance of keeping your application code secure. We will show you how to identify, fix, and prevent vulnerabilities in your application code and secure coding practices. We will also show you how to evaluate your application security.

DIFFICULTY:

BEGINNER

RARITY:

COMMON

HOW DO I GET ONE?

Come join us at our booth and take on a challenge.
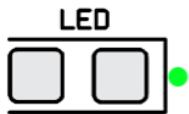
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

COMMUNITY MINIBADGE

BADGELIFE COMMUNITY BADGE

Designed By: Jup1t3r

Badgelife is the best life. Come explore this crazy world of Badges and MiniBadges

DIFFICULTY:

BEGINNER

RARITY:

COMMON
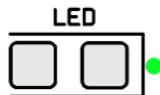
HOW DO I GET ONE?

Come visit the minibadge display. Make a contribution of a COMPLETED minibadge to the display or tell us your favorite thing about minibadges to claim one.

ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

COMMUNITY MINIBADGE

RFID/NFC COMMUNITY BADGE

Designed By: SHIFTY

We will help you discover how short range wireless communication through RFID and NFC works, and how you can take advantage of it, or secure it.

DIFFICULTY:

BEGINNER
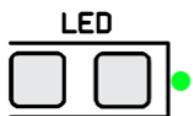
RARITY:

COMMON

HOW DO I GET ONE?
Come partcipate on one of our activities to claim your badge.
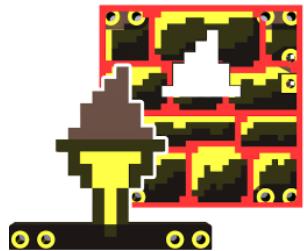
ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

COMMUNITY MINIBADGE

THE KEEP COMMUNITY BADGE

Designed By: Jup1t3r

Your quest begins here! Hone your hacking skills and put them to the test.
The Keep is a community where you can develop your hacking skills. Have you ever wanted to come to a conference, hack a machine, and walk away feeling like you own the world? Yeah, you can do that here.

BACK

DIFFICULTY:

INTERMEDIATE

RARITY:

COMMON

HOW DO I GET ONE?

Visit our community and partcipate to get one of the coolest badges at SAINTCON!
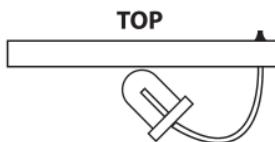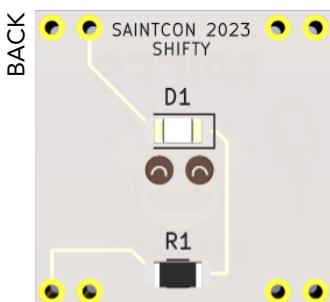
ASSEMBLY INSTRUCTIONS:

• Solder the LED as indicated in the picture, leave the lead wires long enough to bend the LED over to be in the middle of the badge.
• Solder on the resistor
• Solder the 2 shorter header pins to the top of the Brick badge.
• Solder the 2 longer header pins to the bottom of the torch and solder in place.

BOARD/LED TYPE:

TOP

PARTS USED:

2x Long Header Pins
2x Short Header Pins
3mm Candle Flicker LED

COMMUNITY MINIBADGE

BRIEFS SPEAKER MINIBADGE

Designed By: SHIFTY

Come share the cool things you've tried. Maybe it turned out just like you hoped, maybe it crashed and burned. Either way you learned something. Share it with the rest of us!

DIFFICULTY:

BEGINNER

RARITY:

RARE

HOW DO I GET ONE?

Presenting at one of our 5-10 minutes blocks is all it takes to get one of these!
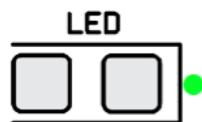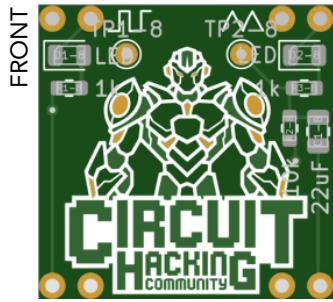
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

COMMUNITY MINIBADGE

CIRCUIT HACKING COMMUNITY MINIBADGE

Designed By: Hamster

In the Circuit Hacking Community, we will help you learn the design of digital circuits, and how to use tools and processes to decode the protocols common to modern devices.

There is an entire world of hardware to explore. We will make a deep-dive into the hacking of circuits available to all attendees of SAINTCON.

DIFFICULTY:
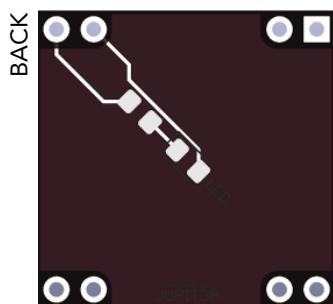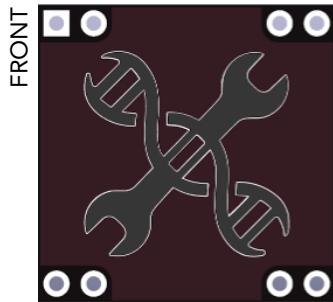
ADVANCED

RARITY:

UNCOMMON

HOW DO I GET ONE?
Come and participate!

ASSEMBLY INSTRUCTIONS:

Visit our community for instructions!

BOARD/LED TYPE:

PARTS USED:

COMMUNITY MINIBADGE

Biohacking Community

Designed By: Jup1t3r

Biohacking and Healthcare Hacking Community

DIFFICULTY:

ADVANCED

RARITY:
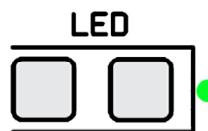
RARE
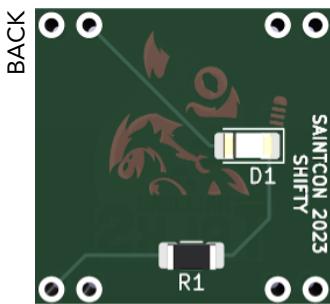
HOW DO I GET ONE?

Come visit a Biohacking representative in the Healthcare Hacking Community

ASSEMBLY INSTRUCTIONS:

Standard SMD soldering, but pay attention to the direction of the LED because it is not labeled on the back.

BOARD/LED TYPE:

LED

PARTS USED:

FRONT

BACK

EVENT MINIBADGE

HALLWAY TALK'S BADGE

Designed By: SHIFTY

Hallway talks were started to give insight into all the incredible effort that makes SAINTCON a success for all involved. We post videos of interviews and behind the scenes content of all things saintcon!

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON
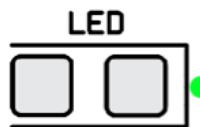
HOW DO I GET ONE?

Find us in the hallways, and ask us for one of these neat badges... Because... We want to talk!

ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

EVENT MINIBADGE

VENT EVENT BADGE

Designed By: SHIFTY

The VENT Event allows security professionals an opportunity to speak and tell stories "off the record". And collaborate to find some creative solutions to the complex problems we have in our industry.

DIFFICULTY:

BEGINNER
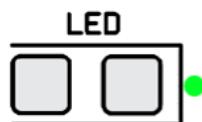
RARITY:

UNCOMMON

HOW DO I GET ONE?

To get one of these MiniBadges, you will need to attend and participate in the VENT event.
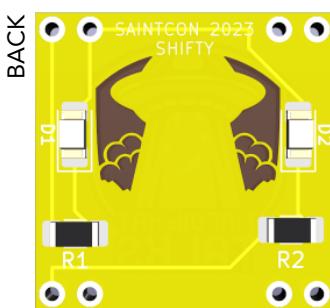
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

EVENT MINIBADGE

TFHT - THE TRUTH IS OUT THERE...

Designed By: SHIFTY

There is significant evidence that the TFHT Minibadge does exist, and the conspiracy is not a conspiracy, we have proof that with the Minibadge is actually a tracker and serves to augment all fields of mind control, making it the most dangerous element of this supposed "security conference".

DIFFICULTY:

BEGINNER

RARITY:
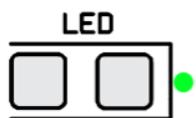
UNCOMMON

HOW DO I GET ONE?

ASSEMBLY INSTRUCTIONS:
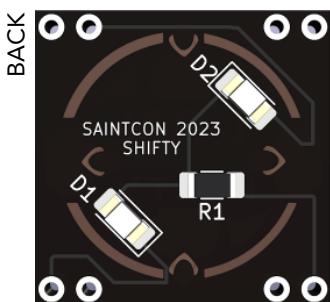
- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

EVENT MINIBADGE

LAN PARTY EVENT BADGE

Designed By: SHIFTY

Come get your LAN on, and experience this classic event. We'll have a variety of games available, including StarCraft, Cursed Halo, Battlefield 1942, Minecraft, Overwatch 2, League of Legends, Rocket League, PayDay 2, and others.

DIFFICULTY:

BEGINNER
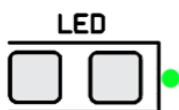
RARITY:

RARE

HOW DO I GET ONE?

Come to the Event to claim one of these.
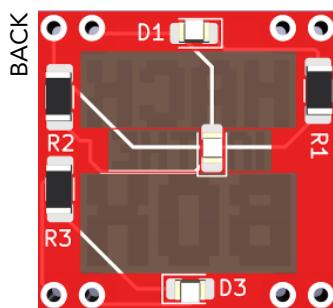
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

- These alternate with the clock once built.

BOARD/LED TYPE:

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

EVENT MINIBADGE

HACK IN THE BOX BADGE

Designed By: SHIFTY

HITB is the best place to hang out after-hours during SAINTCON.

DIFFICULTY:

INTERMEDIATE
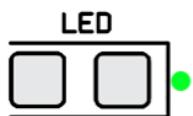
RARITY:

UNCOMMON

HOW DO I GET ONE?

Find us, hang out and discuss all things saintcon at one of our after hours events.

ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED
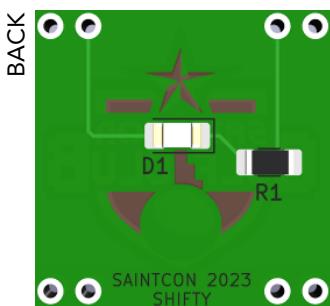
PARTS USED:

0805 LEDS
0805 RESISTORS
FR4 PCB
2-Pin Pin Headers

EVENT MINIBADGE

SAINTCON GOLF CLUB MINIBADGE

Designed By: SHIFTY

Saintcon mini-golf? Yeah, thats a thing this year! We have set up a mini golf couse right in the conference area. Come connect, chat and hangout on the putting green!

DIFFICULTY:

BEGINNER
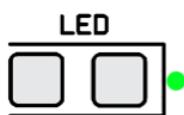
RARITY:

UNCOMMON

HOW DO I GET ONE?

Come play a round of golf on our mini-golf course!
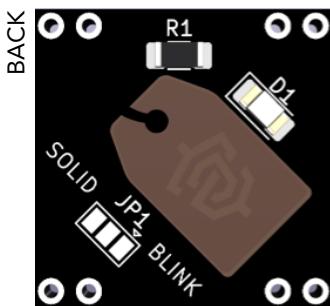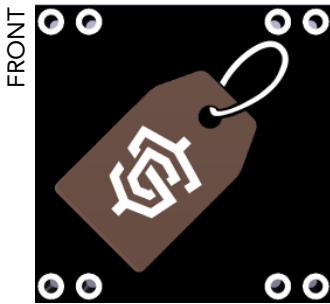
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

EVENT MINIBADGE

SAINTCON STORE MINIBADGE

Designed By: Jup1t3r

The Saintcon store is an official staple of the con. The store grows every year with more and more amazing products and sponsored products from some of the best in the business.

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?

Free with purchase while supplies last!
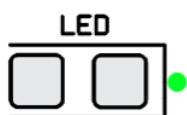
RARITY:

COMMON

ASSEMBLY INSTRUCTIONS:
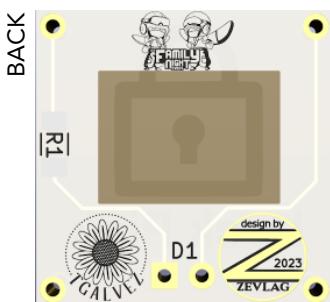
- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.
- Solder 2 of the 3 jumper pads on the badge to either make the leds blink or be solid on.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

EVENT MINIBADGE

Family Night - Lock Pick

Designed By: TGalvez

SAINTCON Family Night, where SAINTCON can be enjoyed by the whole family! This badge represents the efforts of those that participate in the Lock Pick Community at the SAINTCON Family Night event.

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?

Available only to Family Night Attendees. Come attempt to pick a lock to collect a badge.

For those not attending family night, See TGalvez after the event for a collection of Family Night Badges.

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/FamilyNight-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.

ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- Solder the single resistor first.
- Solder the LED so that it is connected on the back-side of the board, with a minimum of 1/2" standoff so the LED can be bent slightly inward.
- After soldering, carefully bend the LED around until it is resting on the back of the board as shown above.
- Solder the 4x 2-Position headers at the bottom of the Front side.

BOARD/LED TYPE:

MULTI COMPONENT
TOP   LED

PARTS USED:

EVENT MINIBADGE

Family Night - Nerf Blaster

Designed By: TGalvez

SAINTCON Family Night, where SAINTCON can be enjoyed by the whole family! This badge represents the efforts of those that participate in the Nerf Blasters Community at the SAINTCON Family Night event.

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?

Available only to Family Night Attendees. Come Shoot a Nerf Blaster with us at Family Night to collect.

For those not attending family night, See TGalvez after the event for a collection of Family Night Badges."

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/FamilyNight-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.

ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- Solder the single resistor first.
- Solder the LED so that it is connected on the back-side of the board, with a minimum of 1/2" standoff so the LED can be bent slightly inward.
- After soldering, carefully bend the LED around until it is resting on the back of the board as shown above.
- Solder the 4x 2-Position headers at the bottom of the Front side.

BOARD/LED TYPE:

PARTS USED:

MULTI COMPONENT
TOP   LED

FRONT

EVENT MINIBADGE

Family Night - Rocket Building

Designed By: TGalvez

SAINTCON Family Night, where SAINTCON can be enjoyed by the whole family! This badge represents the efforts of those that participate in the Rocket Building Community at the SAINTCON Family Night event.

BACK

DIFFICULTY:

BEGINNER
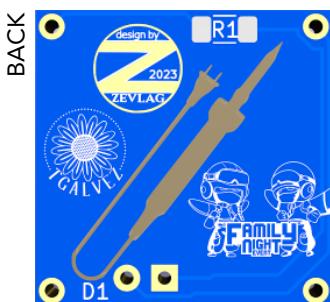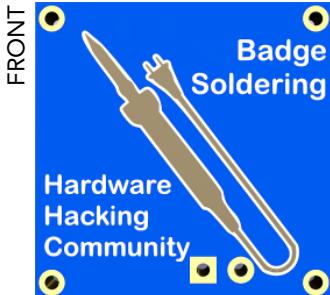
RARITY:

UNCOMMON

HOW DO I GET ONE?

Available only to Family Night Attendees. Come build and launch a rocket at Family Night to Collect.

For those not attending family night, See TGalvez after the event for a collection of Family Night Badges.

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/FamilyNight-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.

ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- Solder the single resistor first.
- Solder the LED so that it is connected on the back-side of the board, with a minimum of 1/2" standoff so the LED can be bent slightly inward.
- After soldering, carefully bend the LED around until it is resting on the back of the board as shown above.
- Solder the 4x 2-Position headers at the bottom of the Front side.

BOARD/LED TYPE:

PARTS USED:

MULTI COMPONENT
TOP   LED

FRONT

BACK

EVENT MINIBADGE

Family Night - Badge Soldering

Designed By: TGalvez

SAINTCON Family Night, where SAINTCON can be enjoyed by the whole family! This badge represents the efforts of those that participate in the Hardware Hacking Community at the SAINTCON Family Night event.

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?

Available only to Family Night Attendees. Come assemble your Family Night badge with us at Family Night to collect.

For those not attending family night, See TGalvez after the event for a collection of Family Night Badges.

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/FamilyNight-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.

ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- Solder the single resistor first.
- Solder the LED so that it is connected on the back-side of the board, with a minimum of 1/2" standoff so the LED can be bent slightly inward.
- After soldering, carefully bend the LED around until it is resting on the back of the board as shown above.
- Solder the 4x 2-Position headers at the bottom of the Front side.

BOARD/LED TYPE:

PARTS USED:

MULTI COMPONENT
TOP   LED

FRONT

BACK

EVENT MINIBADGE

Family Night - Code Breakers

Designed By: Professor Plum

SAINTCON Family Night, where SAINTCON can be enjoyed by the whole family! This badge represents the efforts of those that participate in the Cryptography Community at the SAINTCON Family Night event.

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?

Available only to Family Night Attendees. Anyone who completes a puzzle can get a minibadge. If you complete the substitution cipher you can collect a key!

For those not attending family night, See TGalvez after the event for a collection of Family Night Badges.

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/FamilyNight-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.

ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- Solder the single resistor first.
- Solder the LED so that it is connected on the back-side of the board, with a minimum of 1/2" standoff so the LED can be bent slightly inward.
- After soldering, carefully bend the LED around until it is resting on the back of the board as shown above.
- Solder the 4x 2-Position headers at the bottom of the Front side.

BOARD/LED TYPE:

PARTS USED:

MULTI COMPONENT

EVENT MINIBADGE

Kids Night Attendee Badge

Designed By: VIP

This is the Kids Night gamer badge

BACK

DIFFICULTY:

BEGINNER

RARITY:

COMMON

HOW DO I GET ONE?

This badge is given to all Family Night attendees
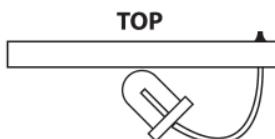
ASSEMBLY INSTRUCTIONS:

Put the BLUE LED on the Left Side, and the Red LED on the Right Side.   They can either be on the front, or on the back.   If placed on the back, you may want to bend the LED around to face the game controller.

Resistors: 10Ohm goes on the BLUE side   68Ohm goes on the RED side.   The LEDs are marked with the color to help.

BOARD/LED TYPE:

PARTS USED:

TOP

EVENT MINIBADGE

Make it Bigger

Designed By: Honki / Xanadu2600

A familiar phrase repeated at check-in as people show their QR codes that just aren't big enough to scan well... now made into a minibadge.

DIFFICULTY:

ADVANCED

RARITY:

RARE

HOW DO I GET ONE?

This very rare badge can be obtained by convincing someone at the registration check in tables to part with one

ASSEMBLY INSTRUCTIONS:

Solder to look like the image.
Use fine solder for the 8 pin IC and watch pin 1 (looking at the back of the board it is top left)
Watch markings for the LEDs negative goes to the top for the closed and half open hand and towards the bottom for the open hand
Orientation doesn't matter for the resistors but the 200k ohm goes on the right and the 100k ohm goes above the IC.
A bodge wire needs to be soldered from the top of the 200k ohm resistor to the positive side of the led on the open hand
For best effect: side mount the LEDs with the lens pointing to the hand and use the red LED for the closed hand, yellow in the middle and green for the fully open hand.
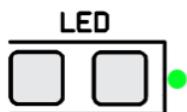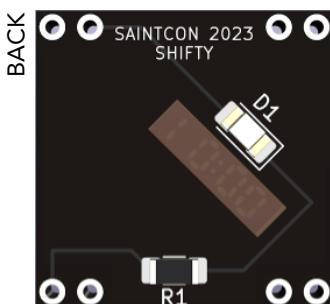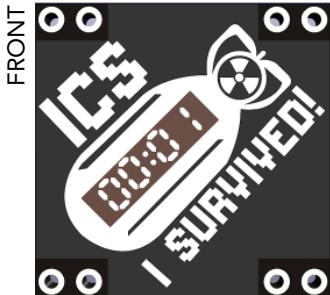
BOARD/LED TYPE:

LED

PARTS USED:

FRONT

BACK

CONTEST MINIBADGE

ICS ESCAPE CHALLENGE - I SURVIVED BADGE

Designed By: SHIFTY

Will you be able to identify and contain cyber threats while restoring functionality to Acme's industrial operations? Come find out in our ICS escape challenge!

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?

Come partcipate to get 1 of our 2 challenge badges.

ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED
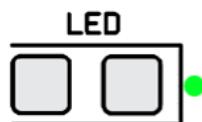
PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

CONTEST MINIBADGE

ICS ESCAPE CHALLENGE - I FAILED BADGE

Designed By: SHIFTY

Will you be able to identify and contain cyber threats while restoring functionality to Acme's industrial operations? Come find out in our ICS escape challenge!

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?

Come partcipate to get 1 of our 2 challenge badges.
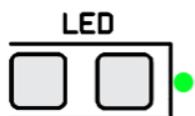
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

- D1 is the White LED
- D2 is the Red LED

BOARD/LED TYPE:

LED
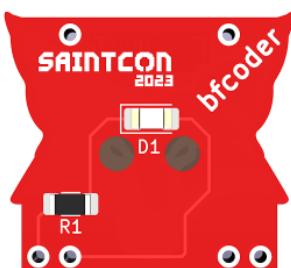
PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

CONTEST MINIBADGE

FOX HUNT CHALLENGE BADGE

Designed By: bfcoder

Beacons will be hidden throughout SAINTCON. Each Beacon resides on a frequency and will be transmitting morse code. It is up to you to find them using Ham Radio, Software Defined Radio (SDR) or other means.

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?
Come find us and participate in the event.
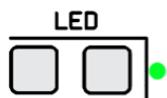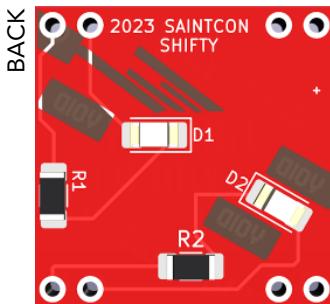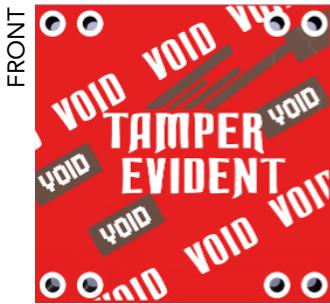
ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

CONTEST MINIBADGE

F.I.B. TAMPER CHALLENGE BADGE

Designed By: SHIFTY

A Challenge provided by the TAMPER EVIDENT COMMUNITY.

This year, the F.I.B agency is back again and needs your help breaking into a package to alter some evidence.

DIFFICULTY:

BEGINNER
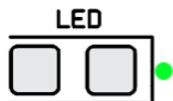
RARITY:

UNCOMMON

HOW DO I GET ONE?
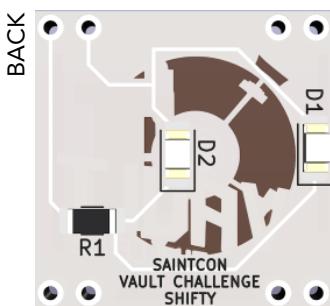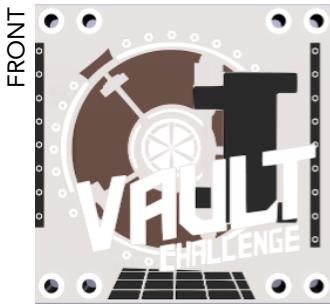
Stop by the Tamper Evident Community and sign up for either the Beginner or Advanced challenge. The objective of the game is to reach the center of the package undetected.

ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

CONTEST MINIBADGE

THE VAULT CONTEST BADGE

Designed By: SHIFTY

Welcome to the Vault, the premier physical penetration test challenge at SaintCon! If you have a knack for bypassing doors, picking locks and subverting security systems, then this is the ultimate challenge for you. The Vault offers a unique experience where participants attempt to overcome doors and safes of varying degrees of difficulty, aiming to score as many points as possible before the conference comes to a close.

DIFFICULTY:

BEGINNER

RARITY:

COMMON

HOW DO I GET ONE?
Come and participate in "THE VAULT".
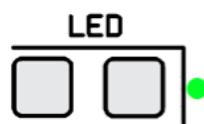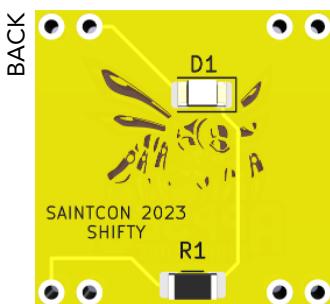
ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

CONTEST MINIBADGE

APPLICATION SECURITY CHALLENGE BADGE

Designed By: SHIFTY

Find and Fix vulnerabilities, it's our biggest challenge.

Do you have what it takes to find and fix vulnerabilities in source code? Compete against other attendees to be the first to fix all vulnerabilities in a simple python Flask web application. Clone the repo, find vulnerabilities, fix them, and submit your code to get a score. Not sure how to get started? Visit the AppSec community and learn how to use tools that will do the dirty work of finding vulnerabilities for you.

DIFFICULTY:

BEGINNER
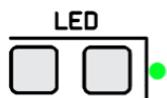
RARITY:

UNCOMMON

HOW DO I GET ONE?

Come participate in our challenge!

ASSEMBLY INSTRUCTIONS:

• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED
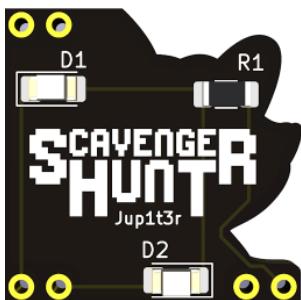
PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

CONTEST MINIBADGE

SCAVENGER HUNT BADGE

Designed By: Jup1t3r

The SAINTCON Scavenger Hunt will test your creativity and packrat tendencies by having a list of items or challenges to present to the Perpetrators for points.

We may want to see arcane technology, ancient documentation, or out and out bribes. Thinking outside of the box is not only encouraged, it's sometimes required.

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON
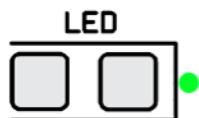
HOW DO I GET ONE?

Visit the Scavenger Hunt contest booth and locate the items list that will be posted. Play the Game, get the badge!

ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:
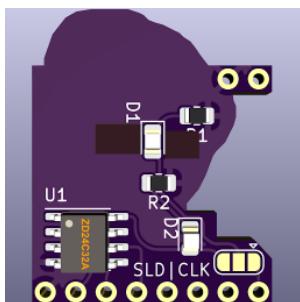
PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

CONTEST MINIBADGE

Hackers Challenge

Designed By: Santiago

Designed by Santiago, with inspiration from Rigel and Zevlag, the Hackers Challenge Minibadge is common badge to find at SAINTCON.

DIFFICULTY:

BEGINNER

RARITY:

COMMON

HOW DO I GET ONE?

You can obtain one by interacting with one of the Game Masters for the Hackers Challenge game.   They MAY make you solve at least one puzzle to earn one, but then again, maybe not.

Get started at
https://www.HackersChallenge.org/

ASSEMBLY INSTRUCTIONS:

ASSEMBLY INSTRUCTIONS:
- This badges comes mostly assembled.
- Begin on the Back side.
- Solder the Jumper at the bottom of the board, bridging EITHER the SOLID or BLINK (clock) side, Never Solder across all three.
- Solder the 3x 2-Position headers in each of the 3 corners on the Front side.
- (There should be 4 holes without pins. I wonder why they'd do that…)

BOARD/LED TYPE:

MULTI COMPONENT
TOP   **LED**

PARTS USED:
D1,D2 - NCD0805R1
R1,R2- 0805W8F680JT5E
U1- ZD24C32A-SSGMB
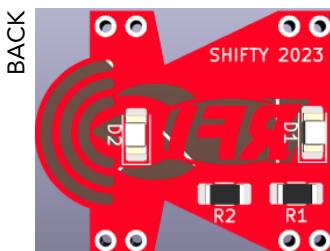
PERSONAL MINIBADGE

RFID Rocket

Designed By: SHIFTY

RFID Rocket, designed with 1 White always on LED and 1 Blinking Red LED.

BACK

SHIFTY 2023

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Find me at the Badge Life Community and Trade or Barter to get one of these!
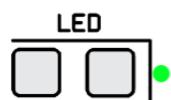
ASSEMBLY INSTRUCTIONS:

• Solder the SMD LED's and Resistors using the single pad soldering method.
The Red LED goes on the tail of the rocket and is marked by Red on its packaging.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

PERSONAL MINIBADGE

Minibadge Community Badge

Designed By: SHIFTY

Worth 9 Badge slots? Thats up to you. This is an extremely rare 7 LED badge that you may see floating around. Will not fit in a standard slot most likely on anything other than a 10x10 board. As a result a custom badge extender will be included with each one of these that is given out.

BACK

DIFFICULTY:

INTERMEDIATE

RARITY:

SUPER RARE

HOW DO I GET ONE?

Find me at the Badge Life community, but getting one of these won't be easy. One will be given out to the person with the most lit up minibadges worn on their person that we see at the con. (Unique trades or barter for the other remaining few.)

ASSEMBLY INSTRUCTIONS:

- Assemble this badge using the single pad soldering method. LED's "D5" and "D6" share the same resistor.
- They are the Green LED's that are marked in the package and bundled together.
- The other SMD LED's can go on any other "D" Marked Location.
- It is helpful to bend the THT LED's a little. (One slightly bent to each side.) To enable them to light up the wording better.

BOARD/LED TYPE:

MULTI COMPONENT

TOP   LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

PERSONAL MINIBADGE

Minibadge Village

Designed By: SHIFTY

An unnoficial Minibadge Village badge. This design has a unique edge cut and 4 ultra bright white LED's.
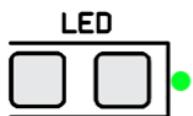
BACK

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?
Find me at the Badge Life Community and
Trade or Barter to get one of these!

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

- Solder using the single pad soldering method.
- The top two and bottom two LED's are on different resistors so this can be different colors if you so choose.
- Included is 2 Resistors and 4 White LED's.

BOARD/LED TYPE:

LED
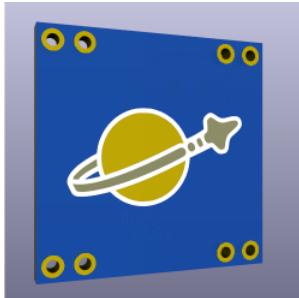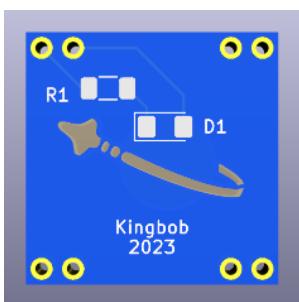
PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers
5mm LED

PERSONAL MINIBADGE

Lego Spaceman Badge

Designed By: Kingbob

SPAAAAACESHIP!!!!! This was my first foray into minibadge design. I realized that minibadges can fit Lego shirt designs pretty well and wanted to go with one that works with a variety of colors. I have black, red, and blue badges.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade with me
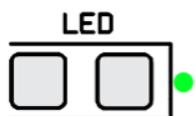
ASSEMBLY INSTRUCTIONS:

- Solder LED and resistor.
- Then solder the 4 2-pin headers.

https://github.com/JonDegn/Saintcon2023-minibages/blob/main/lego-spaceman/readme.md

BOARD/LED TYPE:

LED
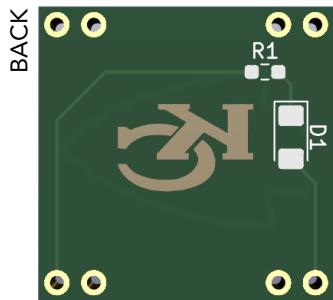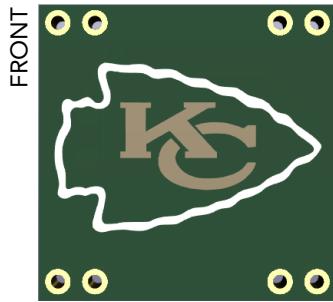
PARTS USED:
1x - 0805 SMD LED (red)
1x - 0805 SMD resistor (82Ω)
4x - 2-pin header

PERSONAL MINIBADGE

KC

Designed By: Sh33pr0ck

Lifelong fan or band wagon, who cares. Celebrate the greatness of the Kansas City Chiefs with this MiniBadge.

DIFFICULTY:
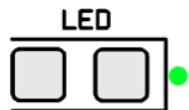
BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
Trade with me or just ask for one.

ASSEMBLY INSTRUCTIONS:
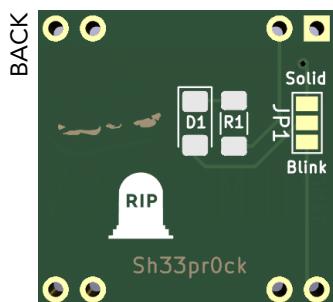
- Green dot/line on LED goes towards the enclosed side of D1.

BOARD/LED TYPE:

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

PERSONAL MINIBADGE

McRib In Memoriam

Designed By: Sh33pr0ck
In memory of everyones favorite rib shaped patty.

DIFFICULTY:

BEGINNER
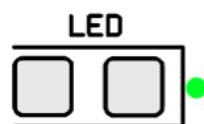
HOW DO I GET ONE?
Trade with me or just ask.

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:
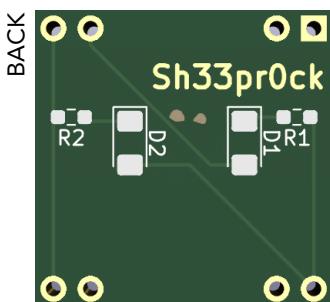
- Green dot/line on LED goes towards the enclosed end of D1.

BOARD/LED TYPE:

LED

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

PERSONAL MINIBADGE

Lo-Pan BTiLC

Designed By: Sh33pr0ck

Glowing eye Lo-Pan from a classic 80s movie.
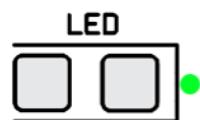
Sh33pr0ck

R2   D2   D1   R1

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade with me or just ask for one.

ASSEMBLY INSTRUCTIONS:

• Green dot/line on LED goes towards the enclosed end of D1 and D2. Add a little hot glue to the LEDs and over the eye holes on the back to direct the light for brighter results.
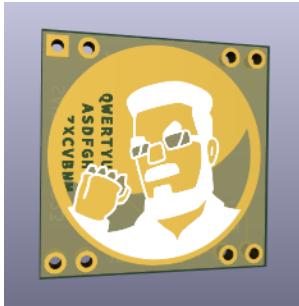
BOARD/LED TYPE:
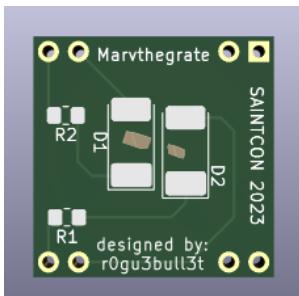
LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

PERSONAL MINIBADGE

marvthegrate

Designed By: rogu3bull3t

This is just hubris. The minibadge is a copy of the avatar I use in many places. It includes a nod to a particular hobby I am known for. It includes all parts needed to build the badge as well as a jig if you are like me and don't like soldering the legs onto badges.

DIFFICULTY:

BEGINNER

RARITY:

RARE
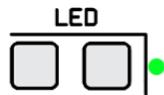
HOW DO I GET ONE?
Come find me, likely at the scavenger hunt booth. I may make you tell a joke or do something fun to get one.

ASSEMBLY INSTRUCTIONS:

https://youtu.be/fbpvT5wf8p8

BOARD/LED TYPE:

LED
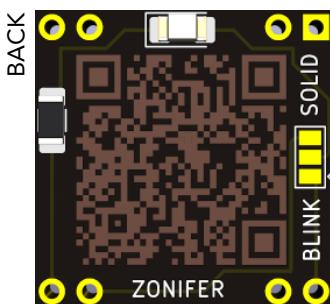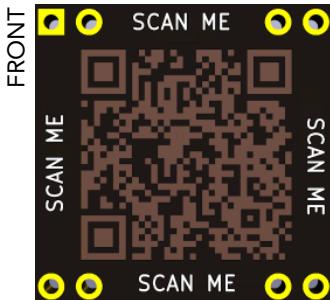
PARTS USED:

Reverse-mount LED	XZMYK45WT-9
51 Ohm 805 resistor	RC0805FR-0751RL
Male Header Pin (2.54 mm)	

FRONT

BACK

PERSONAL MINIBADGE

Rollin With Rick

Designed By: Z0nifer

A simple blinking or solid minibadge with a fun QR code to scan.

DIFFICULTY:
BEGINNER

RARITY:
SUPER RARE

HOW DO I GET ONE?
Come trade with me!
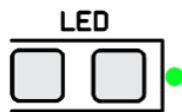
ASSEMBLY INSTRUCTIONS:

- Solder using the single pad method.
- Start with the LED's in the correct orientation, the green side should be inside/point to the square.
- Then solder the resistor on (orientation does not matter).
- Finally solder either the left or right copper pad with the center to either blink or stay solid.

BOARD/LED TYPE:

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

PERSONAL MINIBADGE

Airwolf

Designed By: Opie

When I first saw the filament LED last year with Yoda, Airwolf immediately came to my mind. I love aviation and cars and Airwolf was one of my favorite TV shows when I was growing up.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade with me to get one of these.

ASSEMBLY INSTRUCTIONS:
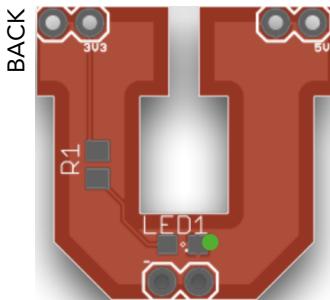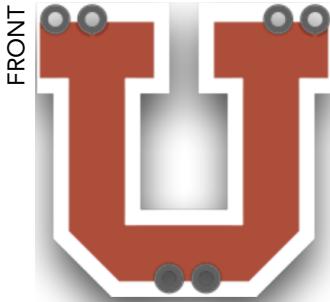
Assembly instructions are here.

https://tinyurl.com/bddpytpp

BOARD/LED TYPE:

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

U of U

Designed By: Professor Plum

Show your support of the University of Utah

DIFFICULTY:

INTERMEDIATE

RARITY:

SUPER RARE

HOW DO I GET ONE?

Just Ask for one
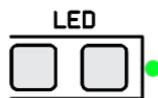
ASSEMBLY INSTRUCTIONS:

I believe the design was in last years mini badge book.
• Place 0803 LED, then 0803 resister.
• Then finally the 3 sets of 2.54mm male headers

BOARD/LED TYPE:
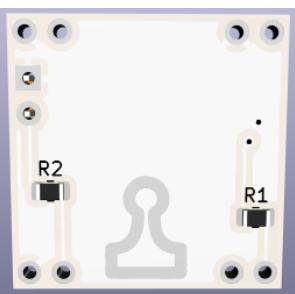
PARTS USED:

0805 Red LED, 0805 470 Ohm resistor, 6x2.54 male pin header

PERSONAL MINIBADGE

Spy vs Spy

Designed By: Professor Plum

The cold war never ended. Spy vs Spy badge, One spy hold a bomb with a burning fuse, the other a ticket time bomb

DIFFICULTY:
INTERMEDIATE

HOW DO I GET ONE?
Trade with me
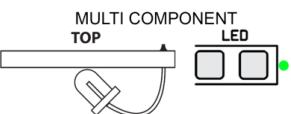
RARITY:
UNCOMMON

ASSEMBLY INSTRUCTIONS:

• First place surface mount LED.
• Add 2 resistors on the back.
• Next add through hole LED, and finally add the header legs.

BOARD/LED TYPE:

MULTI COMPONENT
TOP   LED
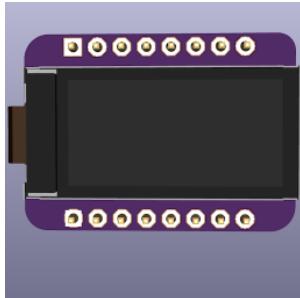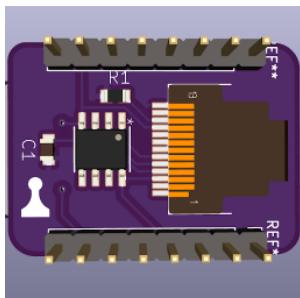
PARTS USED:
Flickering 3mm LED, 0603 Red LED, 2x 0805 100 Ohm resistors, 8x 2.54 Male pin header

FRONT

PERSONAL MINIBADGE

miniLCD Badge

Designed By: Professor Plum

Show your love for Metroid, Pitfall, or Doom! Choose which display option to flash to the badge!

BACK

DIFFICULTY:

ADVANCED

HOW DO I GET ONE?

Unfortunately, do to the higher BoM costs this badge is available for $5

RARITY:
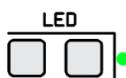
SUPER RARE

ASSEMBLY INSTRUCTIONS:

- Solder LCD, MCU, then capacitor and resistor.
- Layout and flashing instructions at:

  https://github.com/Professor-plum/stm8_minibadges

BOARD/LED TYPE:

LED
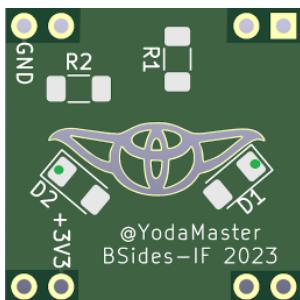
PARTS USED:

0.96" TFT LCD, STM8s001j3, 24 Ohm 0805 resistor, 1uF 0805 capacitor

BACK

PERSONAL MINIBADGE

Toy Yoda

Designed By: YodaMaster

This was my first attempt at a personal minibadge

GND

R2   R1

D2   D1
+3V3
@YodaMaster
BSides—IF 2023

DIFFICULTY:

INTERMEDIATE

RARITY:

UNCOMMON

HOW DO I GET ONE?

Find me and interact. I would like to trade but can easily be coerced into giving one up if you ask nice.
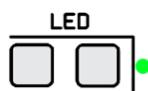
ASSEMBLY INSTRUCTIONS:
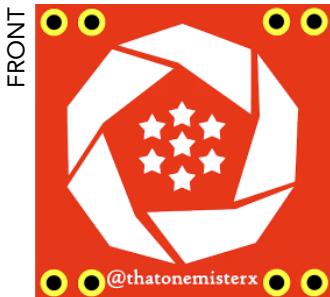
- Use the single pad method to solder on the resistors and LEDs
- LED cathode goes towards the green dot on the picture. (closed end of the U graphic on the board)
- Solder on the 4 -2 pin headers

BOARD/LED TYPE:

LED

PARTS USED:
2 - 1206 Green LEDs
2 - 1206 10ohm resistors
4 - 2 pin headers

@thatonemisterx

D1
R1
R2
D3
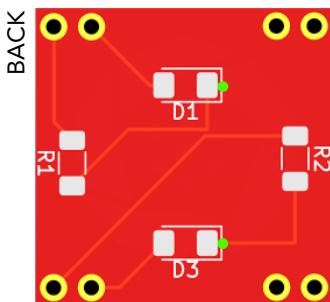
PERSONAL MINIBADGE

Erusea Badge

Designed By: Mister X

The emblem of the Kingdom of Erusea from the game Ace Combat 7, one of my favorites. This will be a part of the Ace Combat minibadge set.

DIFFICULTY:

## BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
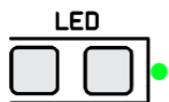
To get this minibadge, ask me for the set and/or tell me your favorite airplane, and I'll gladly give you one.
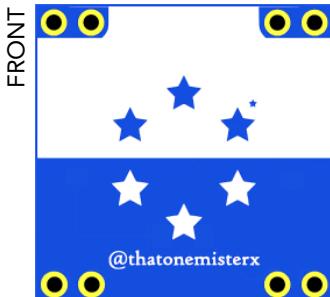
ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image to the left.
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the two Resistors using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the Erusea emblem facing out.

BOARD/LED TYPE:

LED

PARTS USED:

@thatonemisterx

D1

R1

R2

D3
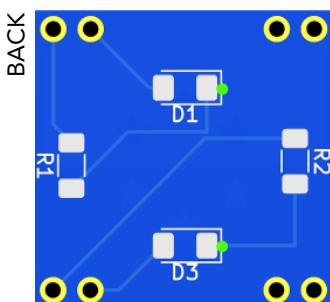
PERSONAL MINIBADGE

Osea Badge

Designed By: Mister X

This is the emblem of Osea from the game Ace Combat 7, one of my favorite games. This will come as a set in the Ace Combat series I'm running.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
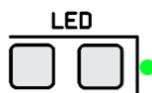
To get this badge, ask for one and/or tell me your favorite airplane, and I'll happily give you one.
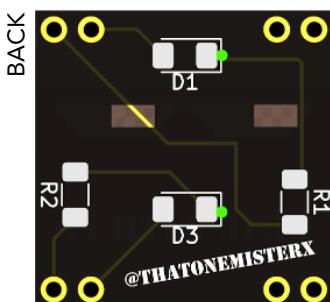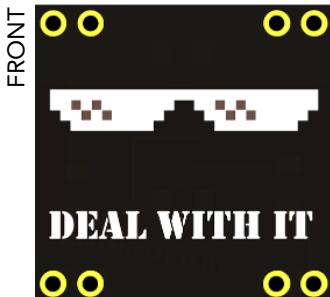
ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image to the left.
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the two Resistors using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the Osea emblem facing out.

BOARD/LED TYPE:

PARTS USED:

LED

PERSONAL MINIBADGE

MLG Badge (Dark Mode)

Designed By: Mister X

Coming from one of the more iconic parts of internet meme, the 8-bit glasses can be recognized almost immediately. This badge comes with white glasses on a black background.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
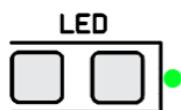
Because there is a light mode and dark mode version of this badge, specify which one you would like.
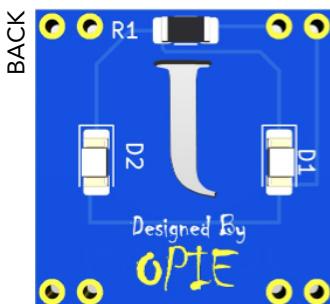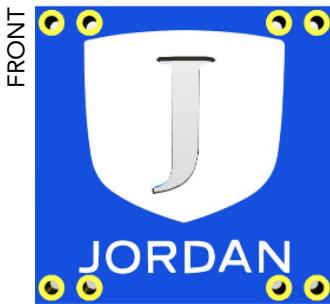
ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image to the left.
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the Resistor using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the 8-bit glasses artwork facing out.

BOARD/LED TYPE:

PARTS USED:

JORDAN

PERSONAL MINIBADGE

Jordan District

Designed By: Opie
This is my first ever minibadge I designed.

DIFFICULTY:
## BEGINNER

RARITY:
RARE

HOW DO I GET ONE?
Just ask for one
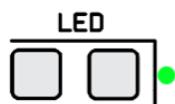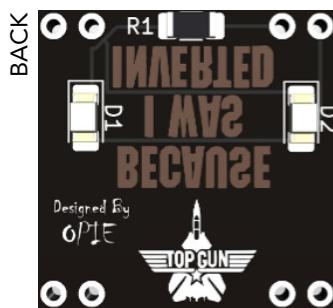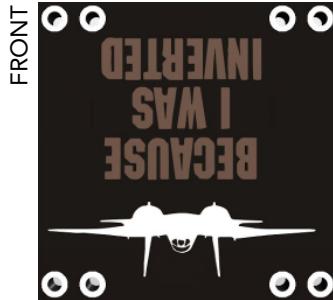
ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the 4x 2-Position headers.

BOARD/LED TYPE:

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Top Gun Inverted

Designed By: Opie

Top Gun is my favorite movie and I designed a badge from one of the scenes in the movie

DIFFICULTY:

BEGINNER
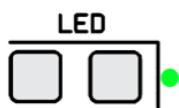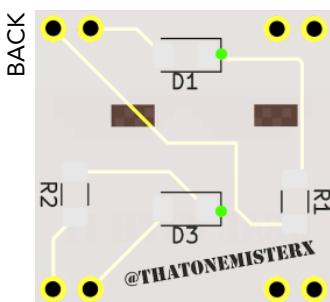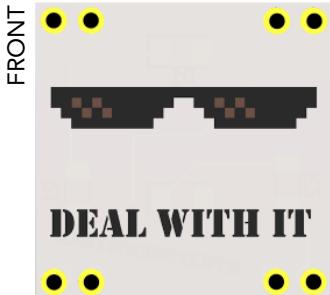
RARITY:

RARE

HOW DO I GET ONE?
Just ask for one.

ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the 4x 2-Position headers.

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

MLG Badge (Light Mode)

Designed By: Mister X

Coming from one of the more iconic parts of internet meme, the 8-bit glasses can be recognized almost immediately. This badge comes with black glasses on a white background.

BACK

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Because there are two versions of this badge, specify which one you would like.
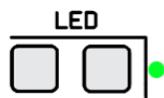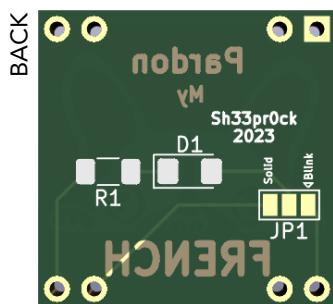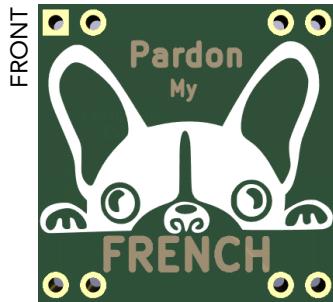
ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image to the left.
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the Resistor using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the 8-bit glasses artwork facing out.

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

Pardon My French

Designed By: Sh33pr0ck

In honor of knocking the lab from the #1 spot in 2023. The absolute quirkiest, strange, and lovable dog out there.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Ask how you can follow my beloved Frenchie on social...or just ask for one.
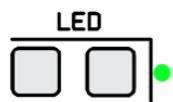
ASSEMBLY INSTRUCTIONS:
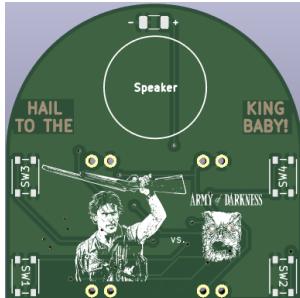
Green dot/line on the LED goes towards the enclosed side of D1. Solder jumper for either blinking or solid.

BOARD/LED TYPE:
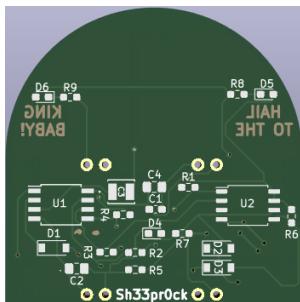
PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Ash vs. Minibadge

Designed By: Sh33pr0ck

The master of comedic horror brought us a classic in the 90s. This MiniBadge plays some of the best one liners from Army of Darkness using a W25Q32 and an ATTiny85. Hail to the King Baby!

DIFFICULTY:

ADVANCED

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade with me.
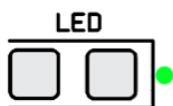
ASSEMBLY INSTRUCTIONS:
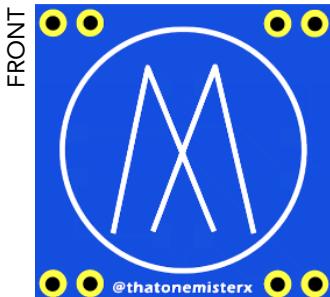
Instructions will be include with badge.

BOARD/LED TYPE:

LED

PARTS USED:
ATtiny85-20S, W25Q32JVSS Flash, 1N4148WS Diodes

FRONT
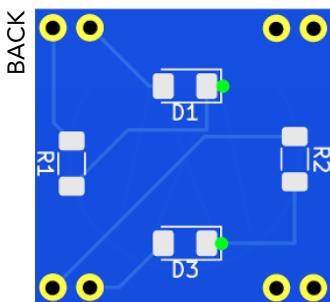
PERSONAL MINIBADGE

Mister X Badge

Designed By: Mister X

This is my first year designing minibadges, and this is the first minibadge I designed. This features my emblem on a blue background. Quick thanks to r0gu3bull3t for the help!

BACK

@thatonemisterx

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
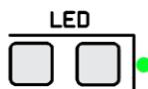
Find me walking around and talk with me, and I'll be happy to give you one. I'll have a jacket with the emblem to make me easier to spot.
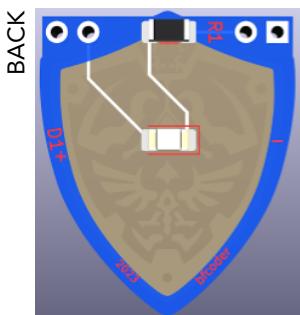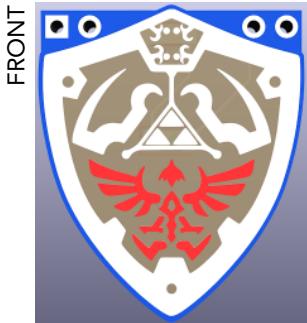
ASSEMBLY INSTRUCTIONS:

- • Begin on the back side first.
- • LED Direction indicators are on the image to the left.
- • Solder the two LEDs first, using the single-pad method for hand soldering.
- • Solder the Resistor using the same single-pad method for hand soldering.
- • Solder the 4x 2-Position headers, with the Mister X emblem facing out.

BOARD/LED TYPE:

PARTS USED:

LED

PERSONAL MINIBADGE

Hylian Shield

Designed By: bfcoder

Glowing Hylian Shield. Use hot glue for best results. There is a single LED on the back. If you make a shield of hot glue on the back, it will light up very nicely!

DIFFICULTY:

## BEGINNER
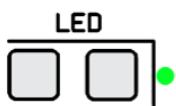
HOW DO I GET ONE?
Trade with me! Or buy it.

RARITY:

UNCOMMON

ASSEMBLY INSTRUCTIONS:

Starting on the back, solder on the resistor at the top. Next solder on the LED in the middle. The left side is the positive side. You can faintly see a + symbol on the left border and a - symbol on the right border. Flip it over so you can see the silver shield and solder the header pins in place.

BOARD/LED TYPE:

LED
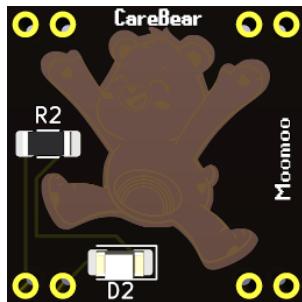
PARTS USED:
Both the LED and the resistor are size 1206. It is a blue LED with a 5.1 ohm resistor.

PERSONAL MINIBADGE

CareBear

Designed By: CareBear

This is a modern version of the Rainbow Care Bear. It features a copper image tracing with a slow 3mm RGB led.

DIFFICULTY:
## BEGINNER
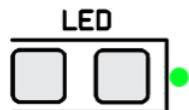
HOW DO I GET ONE?
Trade or barter

RARITY:
SUPER RARE

ASSEMBLY INSTRUCTIONS:
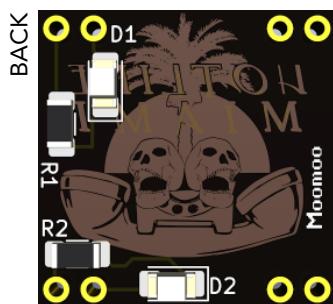
Solder using the single pad soldering method. This will come with a slow 3mm rgb led and one resistor.
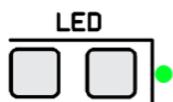
BOARD/LED TYPE:

LED

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Hotline Miami

Designed By: Moomoo

Inspired by Hotline Miami and I used their main page graphic. This is the main title screen badge for my Hotline Miami series.

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?
Trade, barter, ask

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

Solder using the single pad soldering method. This will come with a red smd led, blue smd led, and their associated resistors.

BOARD/LED TYPE:

PARTS USED:
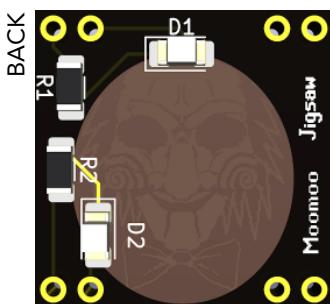
LED

FRONT

PERSONAL MINIBADGE

Jigsaw

Designed By: Moomoo

This is a pixelated version of Jigsaw. This features see through eyes, mouth, cheek swirls, and bowtie. These see through portions will allow red leds to illuminate them giving jigsaw his iconic look.

BACK

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade or ask

ASSEMBLY INSTRUCTIONS:

Solder using the single pad soldering method. This will come with 2 red leds and their associated resistor. Each led has its own resistor and can be changed to any other color as long as you have the correct resistor for the color.

BOARD/LED TYPE:

PARTS USED:

# PERSONAL MINIBADGE

Hotline Miami - Rasmus

Designed By: Moomoo

Rasmus is the owl mask character from Hotline Miami. This is part of my Hotline Miami collection. This features an 8bit graphic with a see-through background so it glows orange and red.
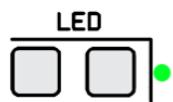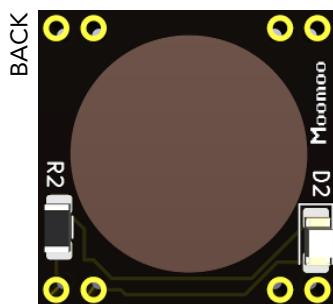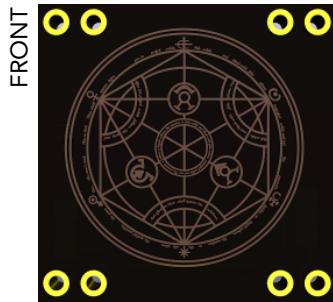
BACK

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade or ask

ASSEMBLY INSTRUCTIONS:

Solder using the single pad soldering method. This will come with a red smd led, orange smd led, and their associated resistor.

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

FMA Human Transmutation Circle

Designed By: Moomoo

This is the human transmutation circle from Full Metal Alchemist that was used in an attempt to bring their late mother back to life using alchemy. This badge will glow blue through the circle.

DIFFICULTY:
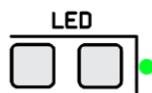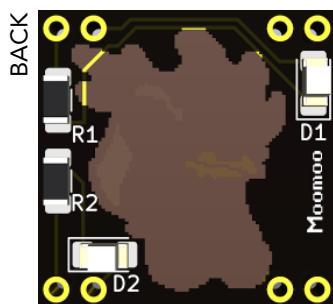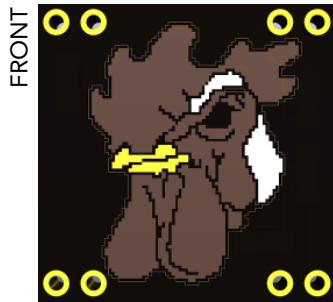
BEGINNER

HOW DO I GET ONE?

Trade or ask

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

Solder using the single pad soldering method. This will come with a blue led and resistor.

BOARD/LED TYPE:

LED

PARTS USED:

PERSONAL MINIBADGE

Hotline Miami - Richard

Designed By: Moomoo

This is the 8bit Richard mask from Hotline Miami. This is part of my Hotline Miami series. This features a red glow to give the mask its iconic look.

DIFFICULTY:

BEGINNER
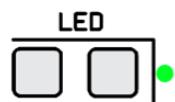
RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade or ask
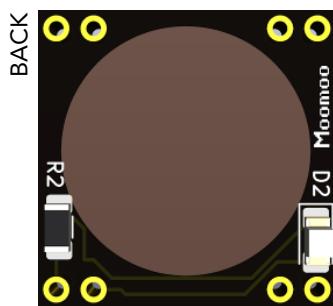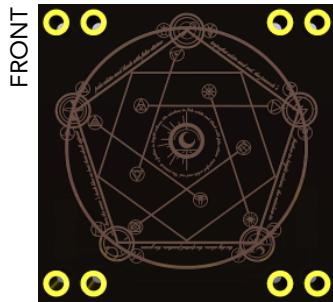
ASSEMBLY INSTRUCTIONS:

Solder using the single pad soldering method. This will come with two red leds and two resistors. You can change out the leds and resistors as they are on their own circuits.

BOARD/LED TYPE:

LED

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

FMA Alkahestric Reverse

Designed By: Moomoo

This is the Alkahestric Reverse circle from Full Metal Alchemist. In the story, this was used to reverse a nation-wide transmutation circle that turned people into a philosopher's stone. This badge will have a blue led that illuminates the circle.

DIFFICULTY:
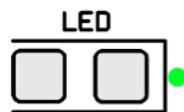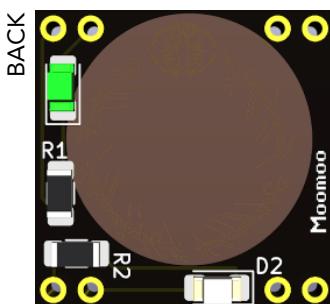
BEGINNER

HOW DO I GET ONE?

Trade or ask

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

Solder using the single pad soldering method. This will come with a blue led and resistor.

BOARD/LED TYPE:

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Sauron - Black Speech

Designed By: Moomoo

This features the mask and eye of Sauron surrounded by the Black Speech written on the One Ring in Elvish Tengwar script. Ash nazg durbatulûk, ash nazg gimbatul,
ash nazg thrakatulûk agh burzum-ishi krimpatul.

This badge has clear portions for the mask, inner portions of the script, and center of the eye. These portions will glow red and orange from the leds on the back.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade or ask

ASSEMBLY INSTRUCTIONS:

Solder using the single pad soldering method. This will come with a red led, and orange led, and their accompanying resistors. Each led and resistor are on their own circuit and can be changed out for any color if you have the correct resistor for that color.

BOARD/LED TYPE:

LED
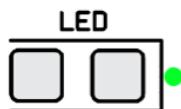
PARTS USED:
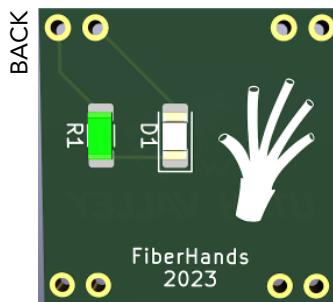
PERSONAL MINIBADGE

Utah Valley University

Designed By: FiberHands (Bobby Carbine)
This badge was designed by Bobby Carbine, a UVU employee.

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?
Ask for one from a UVU employee

RARITY:
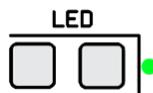
RARE

ASSEMBLY INSTRUCTIONS:

This is a pretty simple design with a surface mount LED and resistor on the back.

BOARD/LED TYPE:
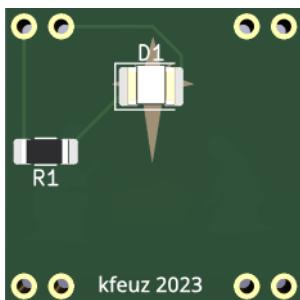
PARTS USED:

PERSONAL MINIBADGE

Nativity

Designed By: kfeuz

A simple nativity scene to remind myself and others about one of the most important events in history and one of my favorite times of the year

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?

Trade with me or come share a story
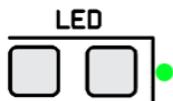
RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:
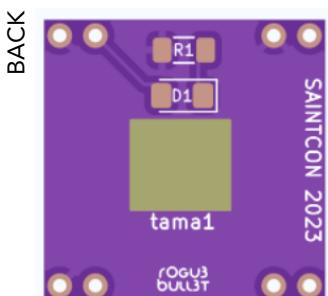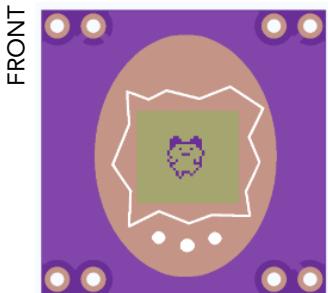
The resistor goes in the in R1 spot in any orientation. The led goes in the d1 spot with the green mark towards the silkscreen rectangle marking. I recommend mounting the led upside down (i.e. so the led is shining into and through the translucent star). It still lights up well if you just mount the led in its normal orientation as well.

BOARD/LED TYPE:

PARTS USED:

1206 smd 100 ohm resistor
1206 smd bright amber led

PERSONAL MINIBADGE

Tamagotchis

Designed By: r0gu3bull3t

I thought it would be fun to have Tamagotchis that won't die! There are 4 versions (Tama1, Tama2, Tama3, & Tama4), one for each day of the con.

BACK

SAINTCON 2023

tama1

rOGU3 bull3t

ASSEMBLY INSTRUCTIONS:

https://youtu.be/P67NellaeM0

DIFFICULTY:

INTERMEDIATE

RARITY:

SUPER RARE
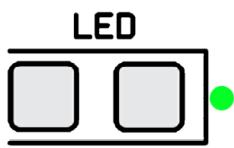
HOW DO I GET ONE?

Ask r0gu3bull3t for one, bonus points if you have a badge to trade. She can usually be found around the soldering tables.

BOARD/LED TYPE:

LED

PARTS USED:

White 1206 LED and
5 ohm Resistor 1206

https://www.mouser.com/ProductDetail/Lite-On/LTW-150TK?qs=%2F%252Byl2r GlQ5%252B6I9F2AMXmoA%3D%3D
https://www.mouser.com/ProductDetail/YAGEO/RC1206DR-07100RL?qs=tggto ntpCXNF7sVGvs42TA%3D%3D
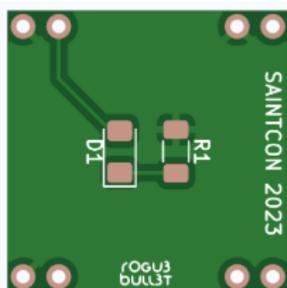
PERSONAL MINIBADGE

AgReserves

Designed By: AgReserves

The SOC team at AgReserves wanted to put together a simple badge to share.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?

Talk to Cody Burgess, Rachel Webb, or Katie Lunceford

ASSEMBLY INSTRUCTIONS:

https://youtu.be/ydpDBeJi5oQ
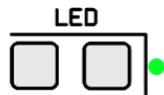
BOARD/LED TYPE:

PARTS USED:

Blue 1206 LED and 5 ohm resistor 1206

https://www.mouser.com/ProductDetail/710-150120BS75000

https://www.mouser.com/ProductDetail/YAGEO/RC1206DR-07100RL?qs=tggtontpCXNF7sVGvs42TA%3D%3D
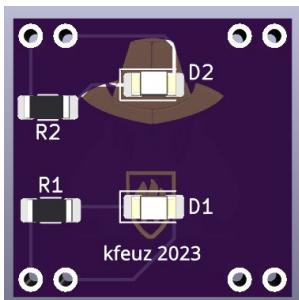
PERSONAL MINIBADGE

Waldo Wildcat Hacker

Designed By: kfeuz

This is a tribute to Weber State and specifically their cybersecurity program. Even Waldo the Wildcat wants to learn offensive and defensive hacking skills.

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?

Trade, Come talk with me.

RARITY:
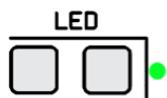
SUPER RARE

ASSEMBLY INSTRUCTIONS:

R1 gets the 470 ohm resistor, orientation does not matter. D1 gets the white led. The little green triangle on the back of the led should point towards the resistor. I recommend mounting this led upside down so that the led is shining into (and through) the back of the board out through the front.
R2 gets the 10 ohm resistor, again orientation does not matter. D2 gets the purple led. The green mark (looks like a T) should have the bottom of the T pointing towards the resistor. I recommend mounting this led right side up so that the led shines onto the back of the reflecting minibadge holder.
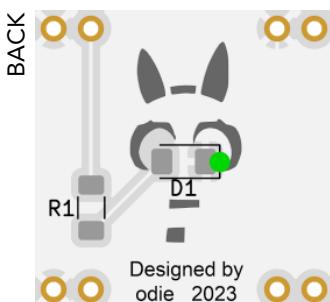
BOARD/LED TYPE:

LED

PARTS USED:

1206 470 ohm resistor
1206 10 ohm resistor
1206 White led
1206 Purple led

FRONT

BACK

PERSONAL MINIBADGE

PPG - Blossom

Designed By: odie

For when you need help saving the world before bedtime, give the Powerpuff Girls a call. First up we have Blossom, commander and the leader.

DIFFICULTY:

## BEGINNER

RARITY:

RARE

HOW DO I GET ONE?

Find odie in the expo hall (generally in the Lockpick Community) and trade with me.

ASSEMBLY INSTRUCTIONS:

- Begin on the Back side first.
- LED Direction indicators are on the image above.
- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the 4x 2-Position headers.

BOARD/LED TYPE:

PARTS USED:

FRONT
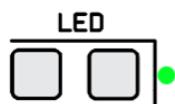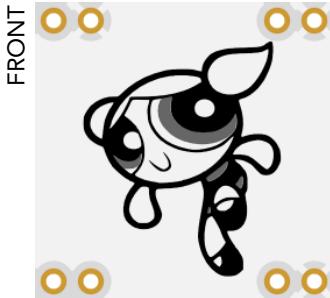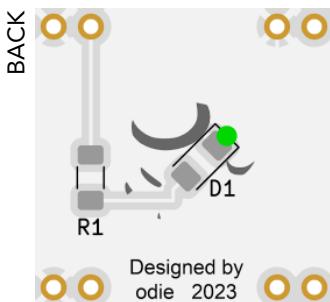
PERSONAL MINIBADGE

PPG - Bubbles

Designed By: odie

For when you need help saving the world before bedtime, give the Powerpuff Girls a call. Next is Bubbles, she is the joy and the laughter.
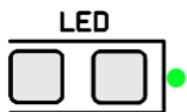
BACK

DIFFICULTY:

BEGINNER

RARITY:

RARE

HOW DO I GET ONE?

Find odie in the expo hall (generally in the Lockpick Community) and trade with me.

ASSEMBLY INSTRUCTIONS:

- Begin on the Back side first.
- LED Direction indicators are on the image above.
- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the 4x 2-Position headers.

BOARD/LED TYPE:

PARTS USED:

FRONT
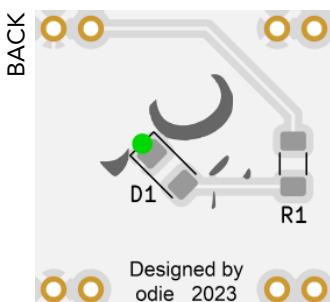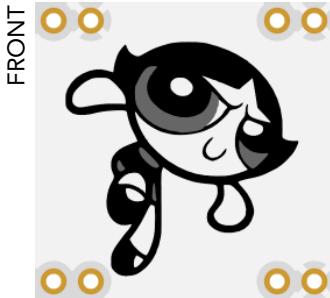
BACK

PERSONAL MINIBADGE

PPG - Buttercup

Designed By: odie

For when you need help saving the world before bedtime, give the Powerpuff Girls a call. Finally we have Buttercup, she is the toughest fighter.

DIFFICULTY:

BEGINNER
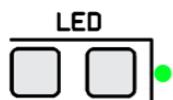
RARITY:

RARE

HOW DO I GET ONE?

Find odie in the expo hall (generally in the Lockpick Community) and trade with me.

ASSEMBLY INSTRUCTIONS:

- Begin on the Back side first.
- LED Direction indicators are on the image above.
- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the 4x 2-Position headers.

BOARD/LED TYPE:
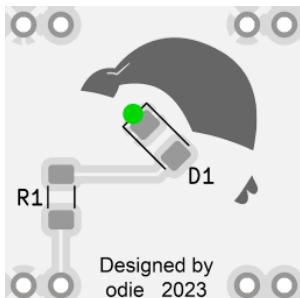
PARTS USED:

PERSONAL MINIBADGE

The odie Badge

Designed By: odie
It's me, odie, in MiniBadge form.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
This will be a super rare badge - reserved for those near and dear to me.
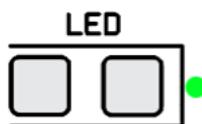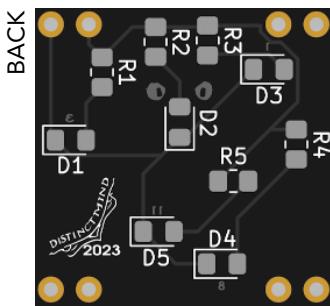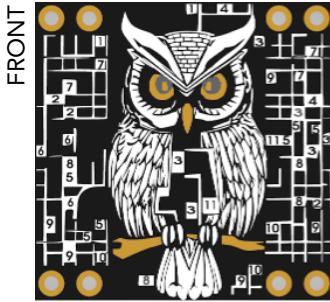
ASSEMBLY INSTRUCTIONS:

• Begin on the Back side first.
• LED Direction indicators are on the image above.
• Solder the LEDs first, using the single-pad method for hand soldering.
• Solder the resistor using the single-pad method for hand soldering.
• Solder the 4x 2-Position headers.

BOARD/LED TYPE:

PARTS USED:

# PERSONAL MINIBADGE

Owl Hoo Hack

Designed By: distinctm1nd

After you assemble this badge (or maybe before but what fun is that?), you'll find a hidden message to decode.

DIFFICULTY:

INTERMEDIATE

RARITY:

SUPER RARE

HOW DO I GET ONE?
Trade with me, attend my talk, or convince me to give you one.
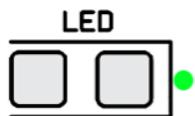
ASSEMBLY INSTRUCTIONS:
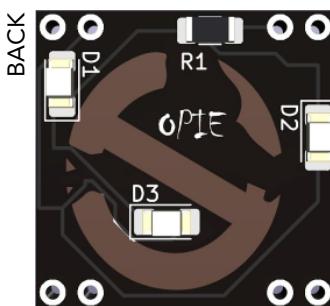
• Before starting, determine where the numbers that light up are located. You can do this by shining a light through the board. This gives away the code, however, you want to make sure that you don't get solder or damage the solder mask around these numbers.
• Begin on the Back side first.
• LED Direction indicators are on the image above. Double check LED orientation before soldering them.
• Solder the LEDs (labeled D1, D2, D3, D4, and D5). All of the LEDs are green.
• Solder the resistors (Labeled R1, R2, R3, R4, R5). The resistors are all 15 ohm.
• Solder the four 2-Pin headers to the corners.

BOARD/LED TYPE:

LED

PARTS USED:
5 15 ohm 0805 Resistors
5 Green 0805 LEDs

PERSONAL MINIBADGE

GhostBusters

Designed By: Opie

I was watching Ghost Busters one night and I though that this would be a cool looking minibadge

DIFFICULTY:

BEGINNER

RARITY:

RARE

HOW DO I GET ONE?
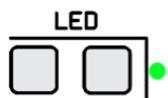
Trade with me, or come and find me while they last.

ASSEMBLY INSTRUCTIONS:

Begin on the back first.
Solder the 3 LED's and 1 Resistor using the single pad method for hand soldering.
Solder the 4x 2-Position headers.

BOARD/LED TYPE:
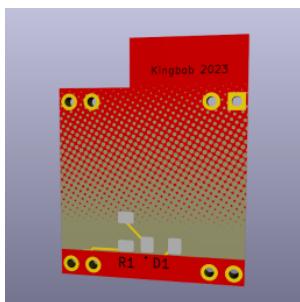
PARTS USED:

PERSONAL MINIBADGE

Delicate Arch badge

Designed By: Kingbob

This was an experiment with layering multiple PCBs in a single badge. Doing a silhouette seemed like a good choice for having multiple layers. I also tried to create a gradient background by having the solder mask fade away on the backside letting though various amounts of light to emulate a sunset. I chose delicate arch on a Utah-shaped badge because I love Arches National Park.

DIFFICULTY:
### INTERMEDIATE

HOW DO I GET ONE?
Trade with me

RARITY:
SUPER RARE
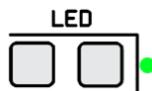
ASSEMBLY INSTRUCTIONS:

- Solder LED and resistor on the back of the Utah badge. The cathode (green part) of the LED should be towards the left indicated by the small dot.
- Solder the headers to the Utah badge. Use VERY LITTLE solder on the bottom headers. Try to prevent the solder from mounding up beyond the surface of the badge.
- Solder the arch silhouette directly on top of the bottom headers so the the side that says "backside" is against the Utah badge.

https://github.com/JonDegn/Saintcon2023-minibages/blob/main/delicate-arch/readme.md

BOARD/LED TYPE:

LED
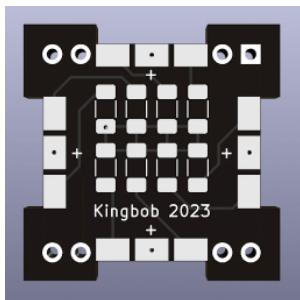
PARTS USED:
1x 1206 LED (yellow)
1x 1206 resister (47Ω)
4x 2-pin header

FRONT

BACK

PERSONAL MINIBADGE

Inifinity Mirror Badge

Designed By: Kingbob

I started working on the designs for this badge shortly after Saintcon 2022. It's taken 4 or so iterations to get into it's current state. This badge has 5 PCBs, a 3D-printed frame, and more than 20 different pieces. It's going to take some patience to assemble this guy. It also comes with a 3D-printed jig to help with assembly. You will need some super glue and some side cutters and/or a metal file to assemble this.

DIFFICULTY:

ADVANCED

HOW DO I GET ONE?

$20 or trade something cool

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

See https://github.com/JonDegn/Saintcon2023-minibages/blob/main/infinity-mirror/readme.md

BOARD/LED TYPE:

LED
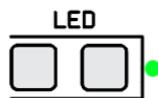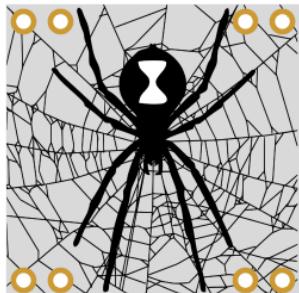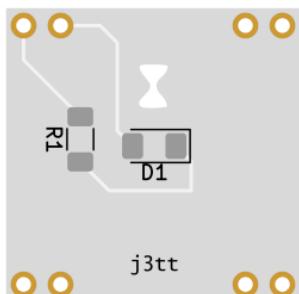
PARTS USED:

8x 1206 LED (white)
8x 1206 resistor (82Ω)

PERSONAL MINIBADGE

Black Widow

Designed By: j3tt

Black Widow is my very first mini badge creation.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Come find me - willing to give out or trade!
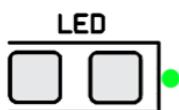
ASSEMBLY INSTRUCTIONS:

- Begin on the Back side first.
- LED Direction indicators are on the image above.
- Solder the LED first, using the single-pad method for hand soldering.
- Solder the Resistor using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers.

BOARD/LED TYPE:
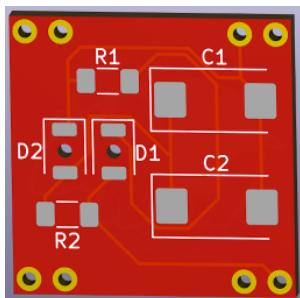
PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Brucifer 2023

Designed By: Brucifer

This MiniBadge displays a representation of Brucifer's favorite animal, the rare horned heterochromian winking tapir. The winking effect is created with a RC Delay circuit - using the CLK pin, 2 capacitors in parallel, and a resistor to delay the lighting of the second LED.

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?

Trade with me, or social engineer one from me.
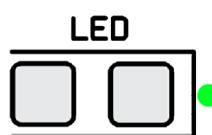
RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

- Solder the R1 (10 ohm, labelled "100") and R2 (68 ohm, labelled "680") resistors first, using the single-pad method for hand soldering.
- Solder the D1 blue LED, with the cathode toward the top of the mini-badge, using the single-pad method for hand soldering.
- Solder the D2 red LED, with the cathode toward the top of the mini-badge, using the single-pad method for hand soldering.
- Solder the C1 and C2 tantalum capacitors, with the positive end (marked with the brown line) to the left
- Solder the 4x 2-Position headers

BOARD/LED TYPE:

LED

PARTS USED:

R1: 10 Ohms Resistor 1206
R2: 68 Ohms Resistor
D1: Blue SMD,1206 LED
D2: Red 2-SMD 1206 LED
C1,C2: Capacitor 7343 Type:D 477 470UF 6.3V, Part# B0BRY14LXK, amazon.com

PERSONAL MINIBADGE

Energizing Life

Designed By: Steve from Dixie Power

Dixie Power has been attending SaintCon for several years and is a strong supporter of the cybersecurity community. This year, we decided to create our own badge that represents our company's field, which is an electric cooperative providing safe, reliable electric utility services in St. George, Utah.

DIFFICULTY:

INTERMEDIATE
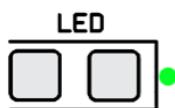
HOW DO I GET ONE?

Look for a Dixie Power employee and trade with them.

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

The blue LED goes to the left of the "D" and the white LED goes below the clouds. The back of the badge is labeled with where the LEDs and resistors should be placed, with "R" representing resistor and "D" representing diodes or LEDs. On the back of the LED, you will see a green arrow. That arrow points to the negative side or the box with the missing side. There is also a JP1 solder pad. If you solder the left and center pads together, the LEDs will blink. If you solder the right and center together, the LEDs will be solid. When soldering the header pins to the mini badge, it is recommended to take the four header pins, place them in the mini badge slot on your powered-off main badge, and place your mini badge onto the pins. This will align the pins, making it easier to solder them on.

BOARD/LED TYPE:

LED

PARTS USED:

Blue LEDs - https://a.co/d/g0y2I1y
White LEDs - https://a.co/d/0vmvcBA
620 ohm resistors - https://a.co/d/fXgFj7F
Male header pins - https://a.co/d/dH9ZdlZ

FRONT

BACK

PERSONAL MINIBADGE

B3rjmp Badge

Designed By: B3rJmp

When I started school, I set my slack profile pic to a bear falling out of a tree onto a trampoline. It was taken at just the right time to make the bear look like it was jumping on the trampoline, so I figured I'd make a badge to commemorate my start into infosec.

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?

Look for NFC stickers with the logo on them

RARITY:
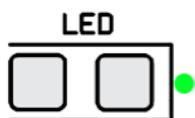
SUPER RARE

ASSEMBLY INSTRUCTIONS:
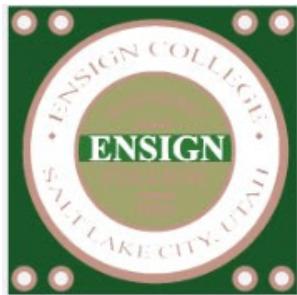
- •   Start on the back of the pcb
- •   Solder the resistors first, since they're smaller it might take more time to put them on, and it's easier without the LED's getting in the way
- •   Solder the LED's next, with the green dot on the beveled side of the marking
- •   Solder the header pins

BOARD/LED TYPE:
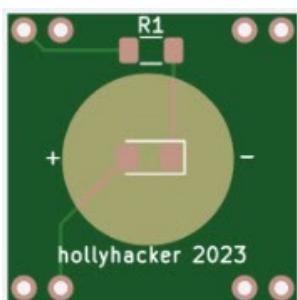
PARTS USED:

PERSONAL MINIBADGE

Ensign college

Designed By: Hollyhacker

I am an adjunct professor at Ensign college and one of the ways I choose to show my passion for that is by making a minibadge for it.

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?

Social Engineer Me (just asking is a good start), Trade with me
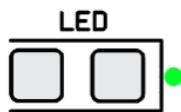
RARITY:
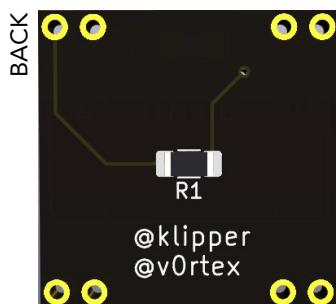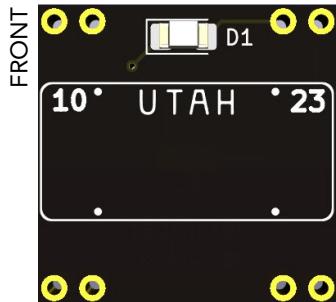
## RARE

ASSEMBLY INSTRUCTIONS:

There is a single resistor for this minibadge, it is small but can be soldered in either orientation. The LED is mounted with the "green mark" going towards the negative sign. The green mark should go into the "garage" or the 3 sided rectangle. You can find an assembly video at https://bit.ly/48t5MS5 .

BOARD/LED TYPE:

PARTS USED:

1206 10M SMD Resistor 100R (AliExpress)
1206 SMD LED (Green) (AliExpress)

FRONT

BACK

PERSONAL MINIBADGE

Black Utah License plate customized with your handle

Designed By: klipper and v0rtex

This is the new black Utah license plate that has been gaining in popularity. A single right angle led shines down to illuminate the plate like on a real car. The cool part about it is we are going to have label makers with it to customize it with your handle! 7 letters max like a real plate. When trading with us, make sure you let us know what you want on it...otherwise you're getting a generic one of whatever we have in our pocket at the time. :D

DIFFICULTY:

INTERMEDIATE

RARITY:

UNCOMMON

HOW DO I GET ONE?

Come trade with @klipper or @v0rtex
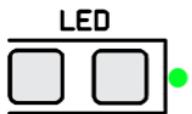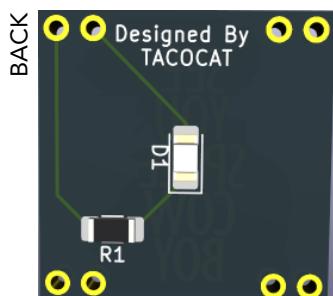
ASSEMBLY INSTRUCTIONS:

Follow the silkscreen for the right-angle LED on the front, and the resistor on the back.

BOARD/LED TYPE:

LED

PARTS USED:

SEE YOU SPACE COW BOY

BACK

Designed By TACOCAT

D1

R1

PERSONAL MINIBADGE

Cowboy Bebop

Designed By: TACOCAT

Decided to make a minibadge based off of one of my favorite tv shows. If you haven't seen it you're missing out.

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?

Trade with me

RARITY:
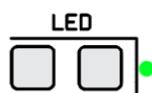
RARE

ASSEMBLY INSTRUCTIONS:

The side of the LED with a green line or dot goes on the side without an opening on the back of the board. Attach the LED and at D1 and resistor at R1 and you should be good to go!

BOARD/LED TYPE:

LED

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

The Troll Badge

Designed By: TheTrollGod

This is TheTrollGod's Personal badge.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?

Come find TheTrollGod during the conference and tell him "I came from under the bridge". Make sure you brush up on some pop culture and security triva!
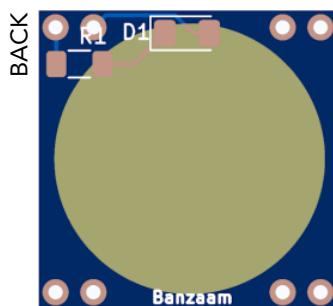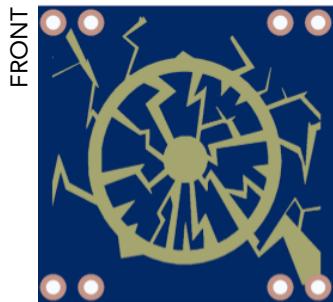
ASSEMBLY INSTRUCTIONS:

Line up the LED with the led square. Resistors are bi-directional.

BOARD/LED TYPE:

PARTS USED:

FRONT

PERSONAL MINIBADGE

Zaam

Designed By: Banzaam

A simple ball of lightning

BACK

|	
DIFFICULTY: INTERMEDIATE	HOW DO I GET ONE? Trade with me
RARITY: SUPER RARE	
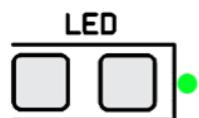
Banzaam

ASSEMBLY INSTRUCTIONS:

Normal solder point resistor, bulb LED solder so the bulb shines through the middle of the badge.

BOARD/LED TYPE:

LED
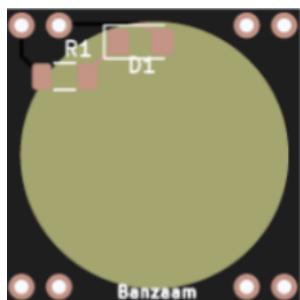
PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

NRGCIC

Designed By: Banzaam

A badge created for teams at NRG and Vivint. The image is a combination of logos.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?

Trading with various Vivint/NRG Employees
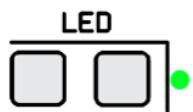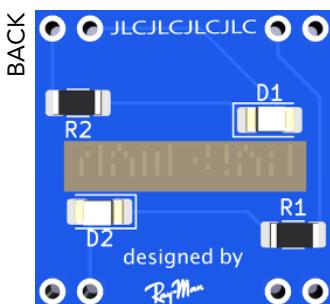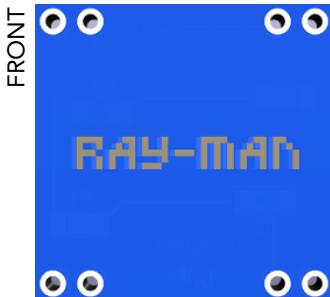
ASSEMBLY INSTRUCTIONS:

Normal solder point resistor, bulb LED to surface solder points.

BOARD/LED TYPE:

LED

PARTS USED:

PERSONAL MINIBADGE

RAY-MAN

Designed By: Ray-Man

Ray-Man has to have an appearance at the con. I wanted a pixel badge so I made one.

DIFFICULTY:

BEGINNER

RARITY:

RARE

HOW DO I GET ONE?

Ask and you shall receive. Demand one and you might have to trade.
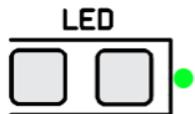
ASSEMBLY INSTRUCTIONS:
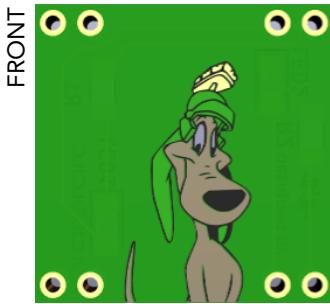
Begin on the back side first, LED Direction- Green goes in the box, Notice that both LEDs are different directions so pay attention.
• Solder the two LEDs first, using the single-pad method for hand soldering. • Solder the two Resistors using the same single-pad method for hand soldering. • Solder the 4x 2-Position headers, with so you can read RAY-MAN without the use of a mirror.

BOARD/LED TYPE:

PARTS USED:
2 LEDs, 2 Resistors, 4- 2 pin headers
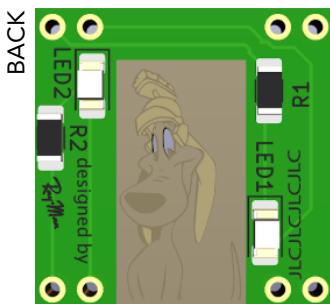
PERSONAL MINIBADGE

K-9

Designed By: Ray-Man

I saw that Berly was bringing Marvin to the con. He has to have his trusty counterpart to keep him out of trouble, so I made a K-9 minibadge.

DIFFICULTY:

BEGINNER

RARITY:

## SUPER RARE

HOW DO I GET ONE?
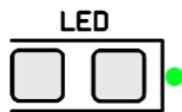
If you get have a Marvin the Martian from Berly come see me and ask for one and you shall get one (while supplies last). If Marvin does not accompany you then you might be forced to trade.

ASSEMBLY INSTRUCTIONS:

Begin on the back side first, LED Direction- Green goes in the box, So they face up if K-9 is not standing on his head.
• Solder the two LEDs first, using the single-pad method for hand soldering. • Solder the two Resistors using the same single-pad method for hand soldering. • Solder the 4x 2-Position headers, so K-9 can stare into your eyes without looking through a muddy window.
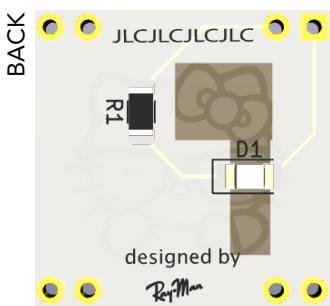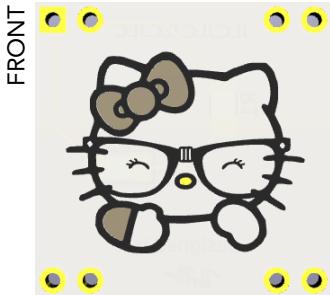
BOARD/LED TYPE:

LED

PARTS USED:
2 LEDs, 2 Resistors, 4 2-pin headers

PERSONAL MINIBADGE

Hello Kitty

Designed By: Ray-Man

I have a coworker that makes fun for us geeking out over these silly little things. She said that the only cool MiniBadge would be a Hello Kitty one. So I had to oblige and make one.

DIFFICULTY:

## BEGINNER
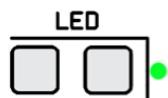
HOW DO I GET ONE?
Trade.

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

Begin on the back side first, LED Direction- Green goes in the box, Left hand side
• Solder the LED first, using the single-pad method for hand soldering. • Solder the Resistor using the same single-pad method for hand soldering. • Solder the 4x 2-Position headers, with her looking at you so you can tell Hello Kitty how pretty while you work.
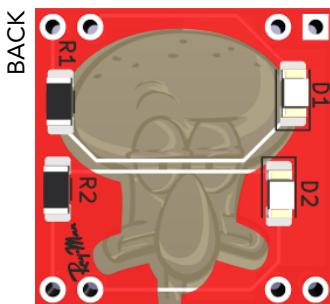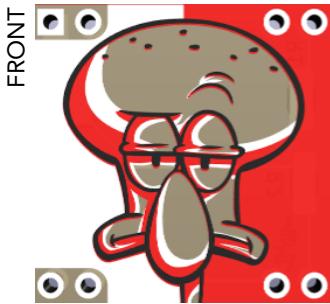
BOARD/LED TYPE:

PARTS USED:
1 LED, 1 Resistor, 4 2-pin headers

PERSONAL MINIBADGE

Squidward the Great

Designed By: Ray-Man

Come and ask me and I'll tell you.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

If you know my first name and I know yours,
then come and ask or trade.
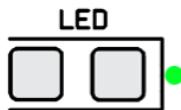
ASSEMBLY INSTRUCTIONS:

Begin on the back side first, LED Direction- Green goes in the box, Notice that both LEDs are different directions so pay attention.
• Solder the two LEDs first, using the single-pad method for hand soldering. • Solder the two Resistors using the same single-pad method for hand soldering. • Solder the 4x 2-Position headers, so you can see Squidward's happy face.

BOARD/LED TYPE:

LED

PARTS USED:
2 LEDs, 2 Resistors, 4 2-pin headers
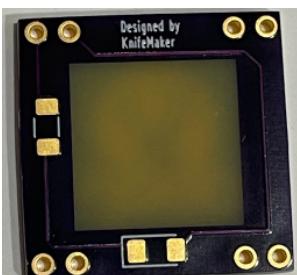
# PERSONAL MINIBADGE

DeerJeep

Designed By: KnifeMaker
It is a Deer/Jeep thing.

BACK

DIFFICULTY:
BEGINNER

HOW DO I GET ONE?
Trade with me.

RARITY:
## SUPER RARE
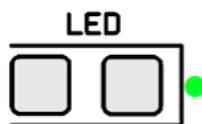
ASSEMBLY INSTRUCTIONS:

Pretty easy to assembly. One LED and One Resistor.

BOARD/LED TYPE:

PARTS USED:

LED
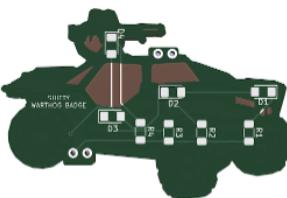
PERSONAL MINIBADGE

WARTHOG MINIBADGE

Designed By: SHIFTY

In memory of alot of peoples first crack at modding systems. This badge takes up 3 badge slots, but i think its worth it. NOTE: The Single LED goes in the location marked "D4" at the top of the badge.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade or barter for one of these unique badges.
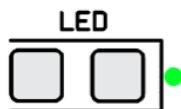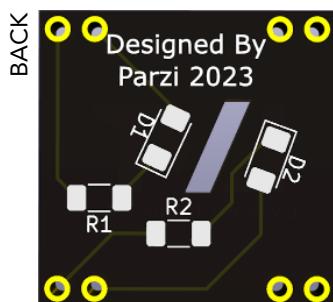
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistors using the single-pad method for hand soldering.
- The single LED is a multicolor LED. This LED goes in the cannon slot. (D4)
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
0805 RGB Quick Change LED
2-Pin Pin Headers

PERSONAL MINIBADGE

LVT

Designed By: Parzi

LVT is the company I have worked for, for the last 6 years, I love what they stand for and what they are doing so I decided to take their logo (with permission) for my first ever minibadge to represent.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade with me
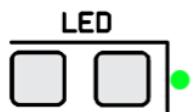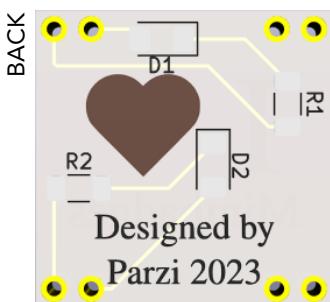
ASSEMBLY INSTRUCTIONS:

Two LEDs and two Resistors it does not matter which color goes where as they are meant to mix "colors" to form a unique color. Solder each resistor to R1 and R2 and the LEDs to D1 and D2

BOARD/LED TYPE:

LED

PARTS USED:

PERSONAL MINIBADGE

I ♥ Minibadges

Designed By: Parzi

This was inspired by my favorite Disney Pin and expresses my second favorite part of Saintcon so it felt only fitting to share this badge with those who also love collecting as I do.

BACK

DIFFICULTY:

BEGINNER

RARITY:

RARE

HOW DO I GET ONE?
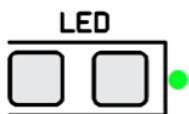
Trade with me, If you have 0 come talk to me and I might have an extra to start your collection

ASSEMBLY INSTRUCTIONS:

2 Red LEDs on D1 and D2 two resistors on R1 and R2 mounted normally.

BOARD/LED TYPE:
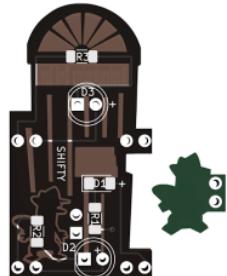
PARTS USED:

PERSONAL MINIBADGE

WHERES PERRY?

Designed By: SHIFTY

Phineas and Ferb inspired badge. Doofenshmirtz Evil Incorporated, also known as Doofenshmirtz Evil Inc. or Doofenshmirtz Corporation, is a company owned by the evil scientist Dr. Heinz Doofenshmirtz. Most of the daily operations of the company are run by Doofenshmirtz himself.

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?

Trade or barter to get one of these.

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

This thing is tricky to build to say the least. Get the LEDS soldered according to the image below Becareful not to give them too much length as it will get in the way of the holder. Then solder the pin headers and use the addidtional pin header to put Perry on LAST. I did not include the LED or resistor for the middle of this badge. Put Perry on last. I did not include a resistor or LED for D1 or R1. This LED is tied to the CLK pin and was overkill, but can be added if one wanted to add a blinking effect to the window.

BOARD/LED TYPE:

TOP
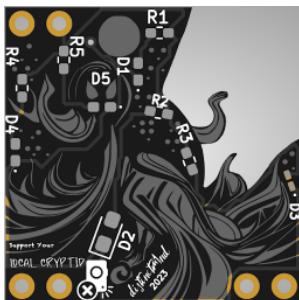
PARTS USED:
5mm RGB LED
1206 Resistors
Pin Headers
FR4 PCB

FRONT

BACK

PERSONAL MINIBADGE

Support Your Local Cryptid

Designed By: distinctm1nd

This badge has a hidden message that will be easier to find than the components. The components for this badge are like cryptids, impossible to see.

DIFFICULTY:

ADVANCED

RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade or barter
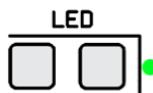
ASSEMBLY INSTRUCTIONS:

Install the header pins last as they make installing the components more difficult. Check to see if each LED is working as you install them. Use the top right header pins to do this, just don't solder them until the end.   All of the LEDS, except D1, are green. The resistors that go with the green LEDs (R2-R5) are also marked green. D1 is yellow and its resistor (R1) is the one not colored green. Don't go by component counts to determine where they go because I included extras for all except D2. The marking for R2 is hard to see so refer to the back image here. Start with D1 and R1. These are the only components that aren't marked with green marker. After this, work through each resistor and LED verifying that each LED works as you solder them. The resistors are associated with their LED by number so R2 goes with D2 etc.   D3 is hard to see the orientation. The side with a pad shaped like a T is the cathode. Optional: Cover the moon and it's LED (D1) with a spot of hot glue.

BOARD/LED TYPE:

PARTS USED:

2.54 mm Pin Headers
D1: Yellow 0402 LED, D2: Green 0603 LED
D3: Green 0201 LED, D4,D5: Green 0402 LED
R1-R5: 0402 Resistors (R1: 68 ohm, R2-R5: 5.1 ohm)

FRONT

BACK

PERSONAL MINIBADGE

The Haunting Specter

Designed By: distinctm1nd
We needed a Halloween minibadge with Saintcon's proximity to Oct 31!

DIFFICULTY:
BEGINNER

RARITY:
RARE

HOW DO I GET ONE?
Trade, barter or attend my talk (can't guarantee everyone who attends my talk will get one)
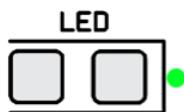
ASSEMBLY INSTRUCTIONS:

Refer to the back image to see LED orientation since it is difficult to see on the badge. R2 is below R1. D1, D2 and D3 are red LEDs which are marked with red marker. D4 is an orange LED. The resistors (left side) are all 68 ohm.
Solder the resistors (R1 - R4). The orientation for them doesn't matter.
Solder D4 paying attention to orientation.
Solder D1 - D3 paying attention to orientation. D1-D3 are reverse mounted so that they shine toward the board. The orientation for polarity is still the same, just turn them over to reverse mount them. You want them to shine directly toward the board as opposed to out.
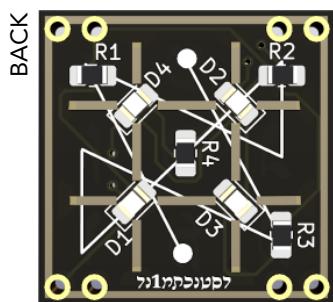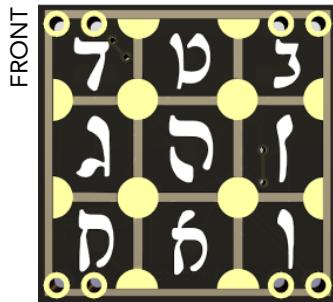
BOARD/LED TYPE:

PARTS USED:
2.54 mm header pins
D1, D2, D3: 1206 SMD LED (Red)
D4: 1206 SMD LED (orange)
R1-R4: 1206 SMD Resistors (68 ohm)

PERSONAL MINIBADGE

Magic Square

Designed By: distinctm1nd

A magic square is a square grid of numbers where the sum of each row, column, and diagonal is constant. Its origin dates back centuries, with roots in ancient Eastern and Western cultures. It is common to see magic squares with Hebrew characters because each character also represents a number.

DIFFICULTY:

INTERMEDIATE
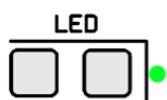
RARITY:

SUPER RARE

HOW DO I GET ONE?

Trade or barter

ASSEMBLY INSTRUCTIONS:

Solder the LEDs (D1 - D4) paying attention to orientation. The LEDs are all the same color (blue). Solder the resistors (R1-R4). The resistors are all 5 ohm. Solder the 4 header pins.

BOARD/LED TYPE:

LED

PARTS USED:

2.54 mm header pins
D1 - D4: 0805 SMD LEDs (blue)
R1 - R4: 0805 SMD resistors (5 ohms)

PERSONAL MINIBADGE

Smaug the Terrible

Designed By: Light

Smaug was considered to be the last "great" dragon of Middle-earth during the Third Age. He captured the Lonely Mountain, forced the dwarves into exile, and claimed their treasure for himself. This minibadge features animated/flickering LEDs to help portray this infamous, fire-breathing dragon.

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?

Find Light at the Hardware Hacking Community (soldering area) and ask for one.

RARITY:
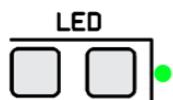
SUPER RARE

ASSEMBLY INSTRUCTIONS:

1. Solder the ATTiny85 using the single-pad soldering method.
2. Solder the resistors and LEDs using the single-pad soldering method.
- 10K ohm resistor (green circle): R4
- 62 ohm resistors (blue circles): R1, R2, and R3
- Orange LED: D2
- Yellow LEDs: D1 and D3
3. Solder the 3x 2-position headers.
4. Cover the LEDs and unmasked area on the back with hot glue (provided at the Hardware Hacking Community).

BOARD/LED TYPE:

LED
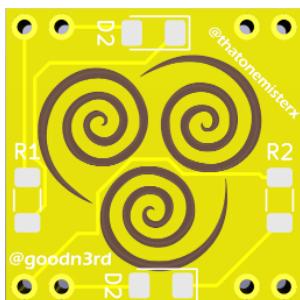
PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Avatar Airbending Badge

Designed By: goodn3rd

Taking inspiration from creators before us, we wanted to make a themed set from the Avatar: The Last Airbender world for each of our party to trade and distribute.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Find H4mmer around the community area and trade (or teach them something interesting).
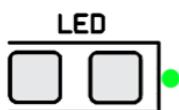
## ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image above. (Green goes into the garage)
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the two resistors using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the artwork facing out.

BOARD/LED TYPE:

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Avatar Earthbending Badge

Designed By: goodn3rd

Taking inspiration from creators before us, we wanted to make a themed set from the Avatar: The Last Airbender world for each of our party to trade and distribute.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
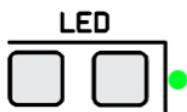
Find Steelhead345 around the community area and trade (or teach them something interesting).
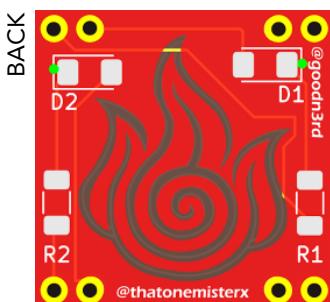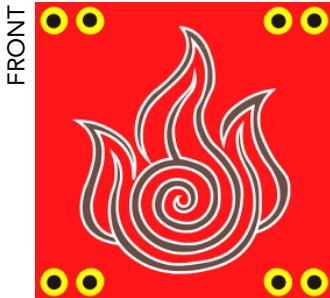
ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image above. (Green goes into the garage)
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the two resistors using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the artwork facing out.

BOARD/LED TYPE:

PARTS USED:

LED

PERSONAL MINIBADGE

Avatar Firebending Badge

Designed By: goodn3rd

Taking inspiration from creators before us, we wanted to make a themed set from the Avatar: The Last Airbender world for each of our party to trade and distribute.

BACK

D2   D1

R2   R1

@thatonemisterx

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
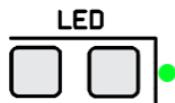
Find Cyb3rKnight around the community area and trade (or teach them something interesting).
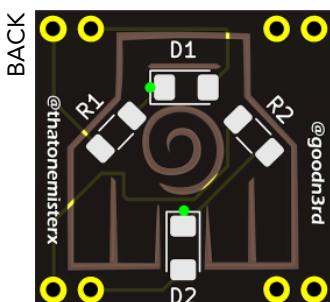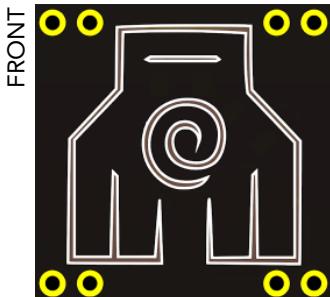
ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image above. (Green goes into the garage)
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the two resistors using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the artwork facing out.

BOARD/LED TYPE:

LED

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Avatar Metalbending Badge

Designed By: goodn3rd

Taking inspiration from creators before us, we wanted to make a themed set from the Avatar: The Last Airbender world for each of our party to trade and distribute.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Find Curosive around the community area and trade (or teach them something interesting).

ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image above. (Green goes into the garage)
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the two resistors using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the artwork facing out.

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

Avatar Tech Badge

Designed By: goodn3rd

Taking inspiration from creators before us, we wanted to make a themed set from the Avatar: The Last Airbender world for each of our party to trade and distribute.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Find goodn3rd around the community area and trade (or teach them something interesting).
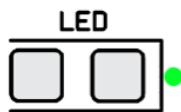
ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image above. (Green goes into the garage)
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the two resistors using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the artwork facing out.

BOARD/LED TYPE:

PARTS USED:
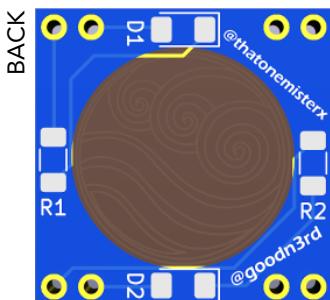
PERSONAL MINIBADGE

Avatar Waterbending Badge

Designed By: goodn3rd

Taking inspiration from creators before us, we wanted to make a themed set from the Avatar: The Last Airbender world for each of our party to trade and distribute.

FRONT

BACK

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Find Mister X around the community area and trade (or teach them something interesting).
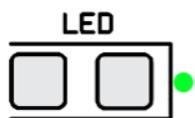
ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image above. (Green goes into the garage)
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the two resistors using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the artwork facing out.

BOARD/LED TYPE:

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Avatar Weapons Badge

Designed By: goodn3rd

Taking inspiration from creators before us, we wanted to make a themed set from the Avatar: The Last Airbender world for each of our party to trade and distribute.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
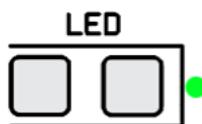
Find Baxter24 around the community area and trade (or teach them something interesting).

ASSEMBLY INSTRUCTIONS:

- Begin on the back side first.
- LED Direction indicators are on the image above. (Green goes into the garage)
- Solder the two LEDs first, using the single-pad method for hand soldering.
- Solder the two resistors using the same single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the artwork facing out.

BOARD/LED TYPE:
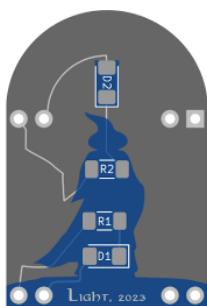
PARTS USED:

PERSONAL MINIBADGE

Doors of Durin

Designed By: Light

The designs on the Doors of Durin were made from ithildin which could only be seen by the reflected light of the moon and stars. The inscription, "Pedo Mellon a Minno" (Speak Friend and Enter), was a riddle. The answer was the Elvish word for friend, mellon.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
Find Light at the Hardware Hacking Community (soldering area) and ask for one.
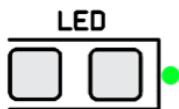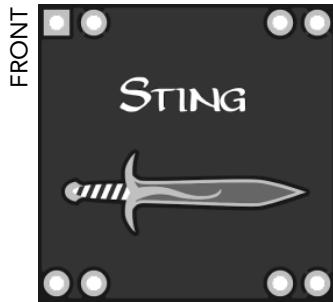
ASSEMBLY INSTRUCTIONS:

1. Solder both resistors using the single-pad method for hand soldering.
2. Solder both LEDs using the single-pad method for hand soldering.
3. Solder the 4x 2-Position headers.
4. To distribute the light evenly, cover the entire back of the minibadge (including the LEDs) with hot glue (provided at the Hardware Hacking Community).

BOARD/LED TYPE:

LED

PARTS USED:

PERSONAL MINIBADGE

The Spider's Bane

Designed By: Light

In "The Lord of the Rings" film series, this Elven dagger is engraved with the words: "Maegnas aen estar nin dagnir in yngyl im." (Sting is my name. I am the spider's bane.) The blade glows blue when Orcs are near.

DIFFICULTY:

INTERMEDIATE
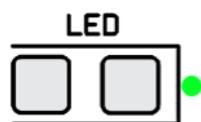
RARITY:

SUPER RARE

HOW DO I GET ONE?

Find Light at the Hardware Hacking Community (soldering area) and ask for one.

ASSEMBLY INSTRUCTIONS:

1. Solder the resistor using the single-pad method for hand soldering.

2. Solder the LED using the single-pad method for hand soldering.

3. Solder the 4x 2-Position headers.

4. Cover the LEDs and unmasked area on the back with hot glue (provided at the Hardware Hacking Community).

BOARD/LED TYPE:
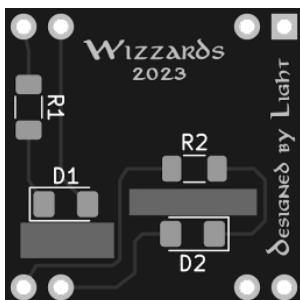
PARTS USED:

PERSONAL MINIBADGE

Wizzards

Designed By: Light

"A wizard is never late, Frodo Baggins. Nor is he early. He arrives precisely when he means to." - Gandalf the Gray

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
Find Light at the Hardware Hacking Community (soldering area) and ask for one.
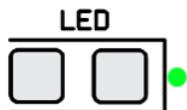
ASSEMBLY INSTRUCTIONS:
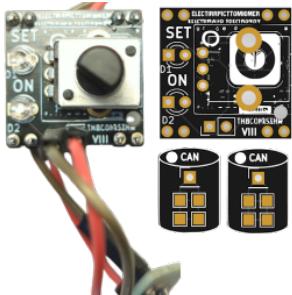
1. Solder the resistors using the single-pad method for hand soldering.

2. Solder the LEDs using the single-pad method for hand soldering.

3. Solder the 4x 2-Position headers.

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

Electirrpicttomiomer

Designed By: distinctm1nd

The Electirrpicttomiomer uses a tiny flow of electrons to measure the physical energy of the mind.

DIFFICULTY:

INTERMEDIATE

RARITY:

SUPER RARE

HOW DO I GET ONE?

I'll only have a small number of these so you'll have to convince me to trade one.

ASSEMBLY INSTRUCTIONS:

Solder the opamp to the back. Solder R1 and R3 (they are 10k ohm resistors and are marked 1002). Bridge the pads on R4 with solder. R4 is in series with the potentiometer and is not needed because the potentiometer covers the range of resistance required.   Solder the 3.3k ohm resistor (marked 3301) to R6. Solder the 12k ohm resistor (marked 123) to R7. Note that R6 is in series with D1 (orange) and R7 is in series with D2 (green). These are much higher resistances than you'd typically use with these LEDs. I chose these resistors because I wanted the LEDs to be easy to view while using the badge and to also appear "vintage."   Solder D1 (orange) to the front. Solder D2 (green) to the front. Solder the potentiometer to the front. Solder the 2 pin female header to the front (bottom). This is what you'll connect the two cans. Solder the 4 header pins. Break the remaining 2 pin male header into two pieces so that each has one pin. Solder a male header pin to each of the cans.

This badge will come with an operating manual.

BOARD/LED TYPE:

MULTI COMPONENT
TOP   LED
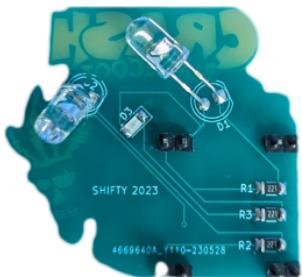
PARTS USED:

D1: 3mm flat top LED (orange) - D2: 3mm flat top LED (green) - R1, R3: 0805 SMD resistor (10k ohms)
R6: 0805 SMD resistor (3.3k ohms) - R7: 0805 SMD resistor (12k ohms) - THT Bourns PTV09A-1 single potentiometer
SMD SOT-23-5 opamp - 2 jumper wires with male to female connectors

PERSONAL MINIBADGE

CRASH MINIBADGE

Designed By: SHIFTY

This is a Throwback to one of the first PS1 Games I played Growing up. Crash Team Racing was a favorite as well.

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?

Trade or Barter to get one of these.

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:
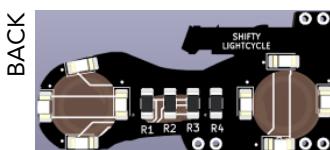
Solder the LEDs leaving enough room to bend the LEDs. Bend one LED toward the Tiki and another toward the CRASH title. (As shown in the badge image.) Solder the resistors and pin headers.

BOARD/LED TYPE:

MULTI COMPONENT
TOP   **LED**

PARTS USED:

5mm Slow Flash RGB LED
5mm Fast Flash RGB LED
1206 LED
1206 Resistor

FRONT

BACK

PERSONAL MINIBADGE

TRON LIGHTCYCLE MINIBADGE

Designed By: SHIFTY

Light cycles were ridden in both the original Tron movie in 1982 and the new Tron Legacy film as part of a deadly sport where riders belted around a digital grid turning corners at breakneck speeds with the aim of cutting off their opponent causing them to crash and explode into millions of tiny glowing pixels.

This has a defect on one side of the badge, and 2 of the leds on the back wheel will not light up.

DIFFICULTY:
ADVANCED

HOW DO I GET ONE?
Trade or barter for one of these if you dare try and assemble one!

RARITY:
SUPER RARE
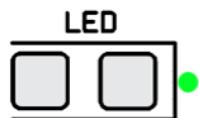
ASSEMBLY INSTRUCTIONS:

This thing is tricky to build. Due to the sheer amount of LED's and resistors in such a small form factor, many of the traces and vias cross under or between the leds. They are not masked making it extremely likely to create a short if you dont have a steady hand when soldering. Use a fine tip and the thinest solder you can find.
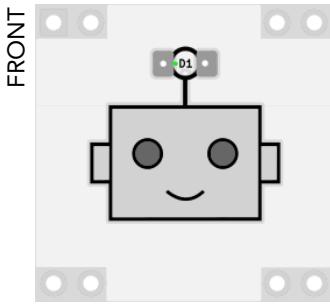
The design makes the silk hard to see for LED direction. There is a slik screen small white dot indicating the Cathode (-) side of the LED.

BOARD/LED TYPE:


PARTS USED:
1206 LED's
1206 Resistors
FR4 PCB
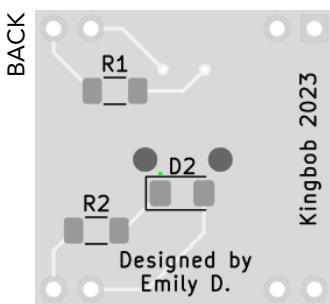
PERSONAL MINIBADGE

Robot badge

Designed By: Kingbob

Designed by my 6 year old, Emily. When I asked her what she wanted on a badge she immediately said "ROBOT!" This is what her creative mind came up with. I just converted her idea to KiCAD.

Kingbob 2023

Designed by
Emily D.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?
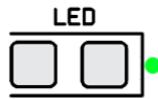
My daughter will be handing them out randomly at family night to other kids. I might have a few on me during the con that you could trade for.

ASSEMBLY INSTRUCTIONS:

There are 2 LEDs and 2 resistors. D1 and R1 have a *RED* mark on their packaging. D2 and R2 have a *BLUE* mark.
Start on back. Solder the blue LED to D2, the blue resistor labelled "1000" to R2 and the red resistor labelled "2R20" to R1.
Solder the headers and then the red LED to D1 on the front with the cathode (green) end on the left.
Add a glob of hot glue over the blue LED and the eyes on the back of the badge to make the eyes show the color better.

https://github.com/JonDegn/Saintcon2023-minibages/blob/main/emily-robot/readme.md

BOARD/LED TYPE:

LED
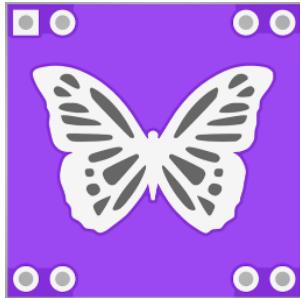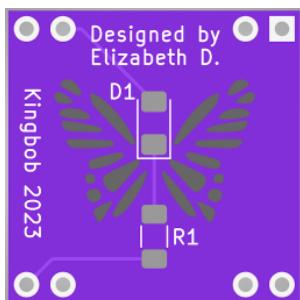
PARTS USED:

1206 red LED
1206 blue LED
1206 2.2Ω resistor
1206 100Ω resistor
2-pin headers

PERSONAL MINIBADGE

Pink Butterfly Badge

Designed By: Kingbob
This was designed by my 8 year old daughter. She wanted something pretty with a pink LED.

BACK

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

My daughter will be handing it out to other kids at family night. I will probably have a few on me that you can trade for during the con.
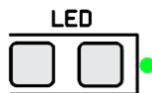
ASSEMBLY INSTRUCTIONS:

Solder the led and resistor on the back and then solder the headers.
Add some hot glue to the back of the board to help the LED evenly light up the butterfly wings.

https://github.com/JonDegn/Saintcon2023-minibages/blob/main/elizabeth-butterfly/readme.md

BOARD/LED TYPE:

LED
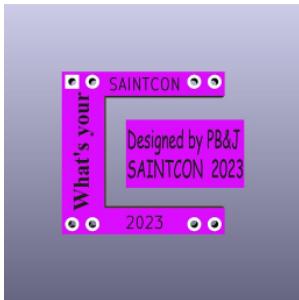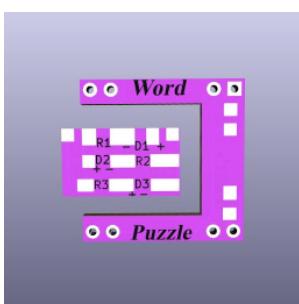
PARTS USED:
1206 pink LED
1206 1Ω resistor
2-pin headers

PERSONAL MINIBADGE

Word Puzzle

Designed By: PB&J

Three stacked, acrylic squares with icons that light up.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?
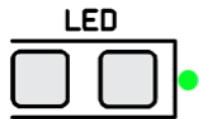
Figure out what the puzzle says/means, trade, tell me if there is anything significant that is hidden in any/all of the parts and what that is.

ASSEMBLY INSTRUCTIONS:

Watch the video, if I can't get the 3rd acrylic square's steps included, just repeat steps from the 2nd square. https://youtu.be/YMicmrvMjMY

BOARD/LED TYPE:

PARTS USED:

LED

PERSONAL MINIBADGE

Sailin' the Digital Seas!

Designed By: Jibberjaw

Remember when radio was going to destroy the record industry? Television was going to be the end of cinema? Home taping was killing music? Video would be the death of Hollywood? Sailing through digital waves, Pirate Bay, where freedom paves, Torrents swirling, tales unfold, In a world where bytes are gold. Yo-ho-ho, Pirate Bay's our tale, Downloading dreams, setting sail, Cyber pirates roam the tide, Bits and bytes, where we abide. Raise the flag, let freedom ring, In this virtual sea, we sing, In cyberspace, our story's told.

DIFFICULTY:

BEGINNER
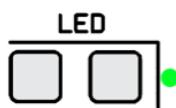
RARITY:

SUPER RARE

HOW DO I GET ONE?

Arrr, these here shall be sailin' through the con!

ASSEMBLY INSTRUCTIONS:

Two LEDs stand, a pirate's pair.
Two resistors guard with flair.
Iron hot, steady and true.
Solder 'em tight, like ocean's dew.
Bridge for 'Pirate's Search', chart the sea.
Or 'I'm Feeling Lucky', with glee.
Joints secure, ready to throw.
Pirate's luck in soldered glow.

BOARD/LED TYPE:

PARTS USED:

Twin 1206 SMD resistor doubloons.
Pair o' 1206 SMD LED treasures.

PERSONAL MINIBADGE

Zodiak

Designed By: Zodiak

It's a minibage. And it looks like a foot. Hopefully it doesn't smell like one.

DIFFICULTY:

INTERMEDIATE
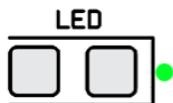
HOW DO I GET ONE?

Find zodiak. No closed toed shoes allowed.

RARITY:

UNCOMMON

ASSEMBLY INSTRUCTIONS:

Same as the rest. Pins go through the holes. LED goes in the LED slot (see guide for orientation), resistor goes in the resistor spot.

BOARD/LED TYPE:
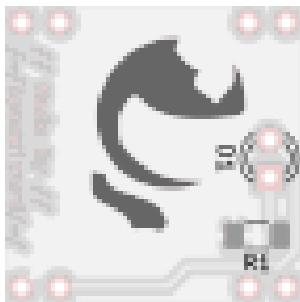
PARTS USED:

White 1206 LED
1206 resistor
4 pins

PERSONAL MINIBADGE

Chomper

Designed By: SpamWizard

This MiniBadge is a Zodiak sponsored mini Zodiak design it is mostly so I can trade for other MiniBadges.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?

This minibadge will be very eaisily attainiable mostly just come say hi to me or Zodiak and we'll hook you up. Nothing that crazy about this badge.
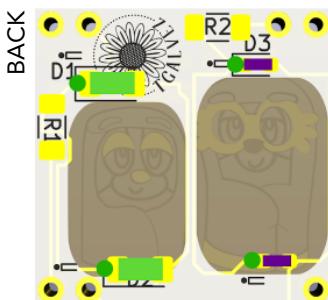
ASSEMBLY INSTRUCTIONS:

Install the Led on the back, make sure the orientation is correct. Install the 1206 resistor and the pins.

BOARD/LED TYPE:

MULTI COMPONENT

TOP

LED

PARTS USED:

PERSONAL MINIBADGE

Here Come The Grannies

Designed By: TGalvez

In true Bluey form, "Here Come the Grannies!" "Oh!, I dropped my coins!"

DIFFICULTY:

ADVANCED

RARITY:

RARE

HOW DO I GET ONE?

Figure out who Z5Zebra is and ask Him what his favorite Bluey episode is.
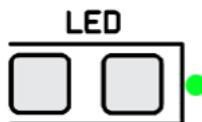
ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
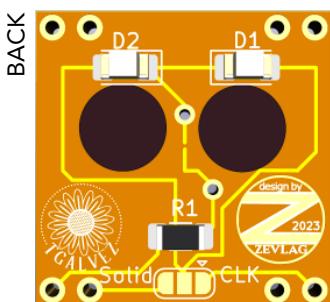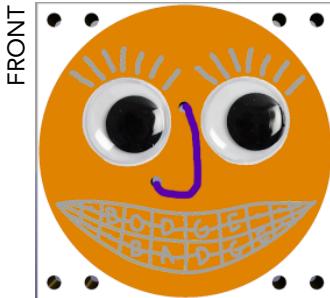
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the board with icons.
- Solder the 4 LEDs first.
  D1, D2 = 1206 Green LEDs
  D3, D4 = 0603 Purple LEDs
- Solder the 2 resistors next.
  R1 = 10 Ω (1206) for Green LEDs
  R2 = 75 Ω (1206) for Purple LEDs
- Solder the 3x 2-Position headers on the Front side.

BOARD/LED TYPE:

PARTS USED:

LED

PERSONAL MINIBADGE

Bodge Badge

Designed By: Zevlag

Sometimes we all make mistakes, so here I am, looking like my favorite emoji.

DIFFICULTY:

ADVANCED

RARITY:

RARE

HOW DO I GET ONE?

Find Zevlag and tell him one of your favorite bodge/hacking story.
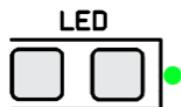
ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
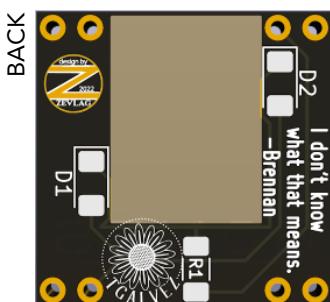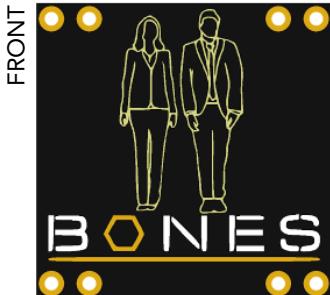
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the PCB with box icon.
- Solder the 2 LEDs first.
  D1, D2 = 1206 White LEDs
- Solder the 2 resistors next.
  R1 = 10 Ω (1206) for White LEDs
- Solder the Jumper at the bottom of the board, bridging EITHER the SOLID or BLINK (clock) side, Never Solder across all three.
- Solder the 4x 2-Position headers on the Front side.

BOARD/LED TYPE:

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Bones - Dr. Temperance

Designed By: TGalvez

Part of the "Bones" Collection. This collection came about as a way for a band loving kid to have minibadges to trade and still be able to offer his inspiration badge—the Trombone Badge, as an ultra rare badge. Collect all 5 "Bones" badges to qualify to to collect a Trombone.

This "Bones" badge is inspired by the TV Show, "Bones".

DIFFICULTY:
BEGINNER

RARITY:
RARE

HOW DO I GET ONE?
Find Z2Orca and bring something to trade.

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
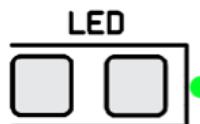
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the PCB with box icon.
- Solder the 2 LEDs first.
  D1, D2 = 1206 Blue LEDs
- Solder the 2 resistors next.
  R1 = 10 Ω (1206) for Blue LEDs
- Solder the 4x 2-Position headers on the Front side.
- For the best illumination effect cover the back, including LEDs, with globs of hot glue.-

BOARD/LED TYPE:

PARTS USED:

LED
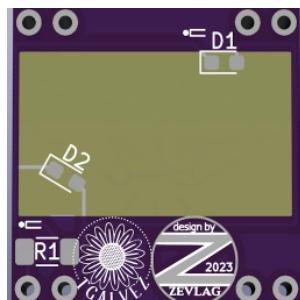
PERSONAL MINIBADGE

Bones - Knuckles

Designed By: TGalvez

Part of the "Bones" Collection. This collection came about as a way for a band loving kid to have minibadges to trade and still be able to offer his inspiration badge—the Trombone Badge, as an ultra rare badge. Collect all 5 "Bones" badges to qualify to to collect a Trombone.

Forget Hi-5, give me Bones!

DIFFICULTY:
BEGINNER

HOW DO I GET ONE?
Find Z2Orca and bring something to trade…and don't forget to give him bones!

RARITY:
RARE

ASSEMBLY INSTRUCTIONS:
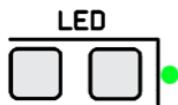
Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
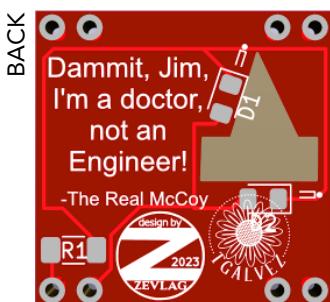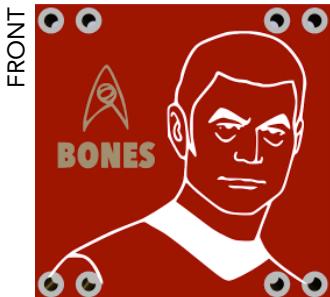
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the PCB with box icon.
- Solder the 2 LEDs first.
  D1, D2 = 0603 Purple LEDs
- Solder the 2 resistors next.
  R1 = 10 Ω (1206) for Purple LEDs
- Solder the 4x 2-Position headers on the Front side.
- For the best illumination effect cover the back, including LEDs, with globs of hot glue.

BOARD/LED TYPE:

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Bones - McCoy

Designed By: TGalvez

Part of the "Bones" Collection. This collection came about as a way for a band loving kid to have minibadges to trade and still be able to offer his inspiration badge—the Trombone Badge, as an ultra rare badge. Collect all 5 "Bones" badges to qualify to to collect a Trombone.

The real McCoy!

DIFFICULTY:	HOW DO I GET ONE?
BEGINNER	Find Z2Orca and bring something to trade.
RARITY:	
RARE	

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
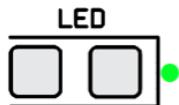
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the PCB with box icon.
- Solder the 2 LEDs first.
  D1, D2 = 0805 Yellow LEDs
- Solder the single resistor next.
  R1 = 100 Ω (1206) for Yellow LEDs
- Solder the 4x 2-Position headers on the Front side.
- For the best illumination effect cover opening on the back, including LEDs, with a glob of hot glue.

BOARD/LED TYPE:
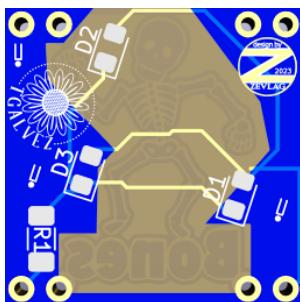
PARTS USED:

PERSONAL MINIBADGE

Bones - Them Dry Bones

Designed By: TGalvez

Part of the "Bones" Collection. This collection came about as a way for a band loving kid to have minibadges to trade and still be able to offer his inspiration badge—the Trombone Badge, as an ultra rare badge. Collect all 5 "Bones" badges to qualify to to collect a Trombone.

"Them Bones, Them Bones Gonna, Walk Around!"

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?
Find Z2Orca and bring something to trade.

RARITY:

RARE

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
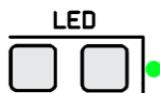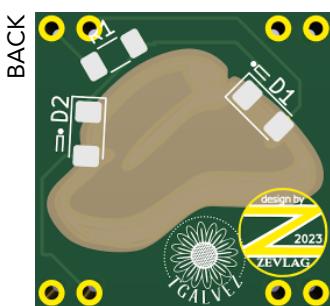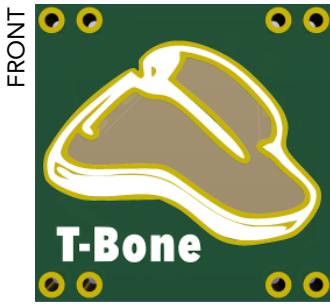
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the PCB with box icon.
- Solder the 3 LEDs first.
  D1, D2, D3 = 0805 White LEDs
- Solder the single resistor next.
  R1 = 22 Ω (1206) for White LEDs
- Solder the 4x 2-Position headers on the Front side.
- For the best illumination effect cover opening on the back, including LEDs, with a glob of hot glue

BOARD/LED TYPE:

PARTS USED:

# PERSONAL MINIBADGE

Bones - T-Bone Steak

Designed By: TGalvez

Part of the "Bones" Collection. This collection came about as a way for a band loving kid to have minibadges to trade and still be able to offer his inspiration badge—the Trombone Badge, as an ultra rare badge. Collect all 5 "Bones" badges to qualify to to collect a Trombone.

Don't forget the Sauce! (Carolina Barbecue that is!)

DIFFICULTY:
BEGINNER

HOW DO I GET ONE?
Find Z2Orca and bring something to trade.

RARITY:
RARE

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
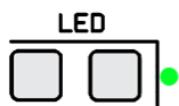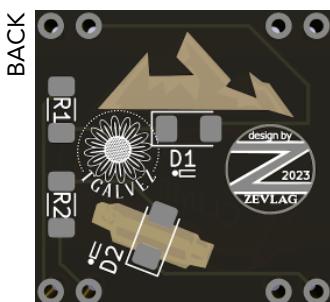
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the board with icons.
- Solder the 2 LEDs first.
  D1, D2, D3 = 1206 Red LEDs
- Solder the single resistor next.
  R1 = 30 Ω (1206) for Red LEDs
- Solder the 4x 2-Position headers on the Front side.
- For the best illumination effect cover opening on the back, including LEDs, with a glob of hot glue.

BOARD/LED TYPE:

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Climb On

Designed By: Zevlag

Inspired by a love of climbing—both in the mountains and on the wall in the gym.

DIFFICULTY:
BEGINNER
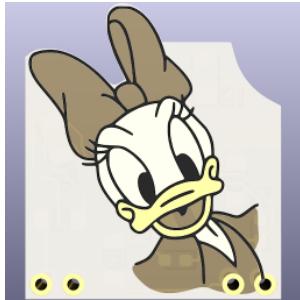
HOW DO I GET ONE?
Find Zevlag and share a favorite hobby!

RARITY:
RARE

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.

ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the board with icons.
- Solder the 2 LEDs first.
  D1 = 1206 Green LED
  D2 = 1206 Blue LED
- Solder the 2 resistors next.
  R1 = 10 Ω (1206) for Green LED
  R2 = 10 Ω (1206) for Blue LED
- Solder the 4x 2-Position headers on the Front side.

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

Daisy Duck

Designed By: TGalvez

Who's Minnie without her best friend, Daisy! Badge fits perfectly next to her sister badge of last year, the Minnie Badge.

"I just know we'll have oodles of fun together! I'm Daisy Duck, but you can call me Daisy. We've all just been dying to meet you!"

DIFFICULTY:
ADVANCED

RARITY:
RARE

HOW DO I GET ONE?
Find TGalvez and toss in your vote for which of the crew should make a debut next year!

ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
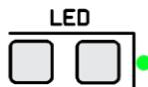
Bodge wire required! NOTE: The indicated bodge wire is required for all LEDs to illuminate.
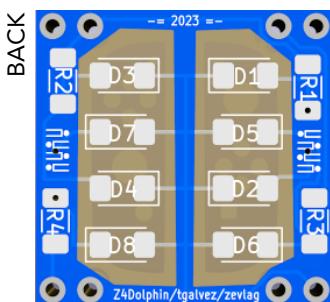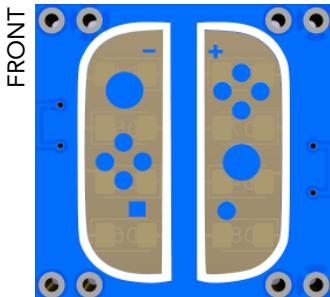
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the board with icons.
- Solder the 4 LEDs first.
  D1, D2 = 1206 Pink LEDs
  D3, D4 = 0603 Purple LEDs
  D5 = 1206 Red LED
- Solder the 3 resistors next.

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

JoyCon

Designed By: TGalvez
1, 2, Switch!

DIFFICULTY:
INTERMEDIATE

HOW DO I GET ONE?
Find Z4Dolphin and tell him your favorite game!

RARITY:
RARE

ASSEMBLY INSTRUCTIONS:
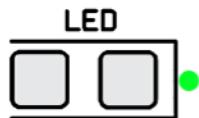
Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
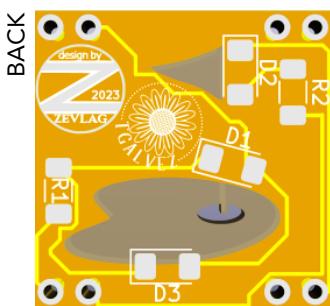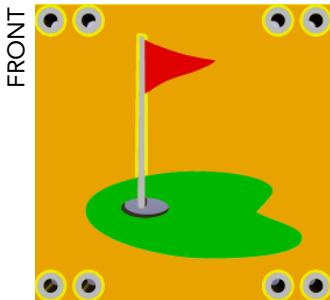
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- Check the year at the top to orient top and bottom.
- LED Direction indicators are on the image above, and on the board with icons.
- Solder the 8 LEDs first.
  D1, D2, D7, D8 = 1206 Blue LEDs
  D3, D4, D5, D6 = 1206 Red LEDs
- Solder the 4 resistors next.
  R1, R4 = 10 Ω (1206) for Blue LEDs
  R2, R3 = 30 Ω (1206) for Red LEDs

BOARD/LED TYPE:

PARTS USED:

LED

PERSONAL MINIBADGE

MiniGolf

Designed By: TGalvez and Zevlag

Toss on your VR headset of choice and download Walkabout Mini golf to enjoy the multiplayer game that has brought conference committee members stress relief over the months as they've planned this year's con.

DIFFICULTY:

BEGINNER

RARITY:

RARE

HOW DO I GET ONE?

Find Zevlag and chat VR experiences to collect!
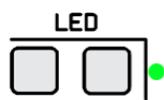
ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.

ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the board with icons.
- Solder the 3 LEDs first.
  D1, D3 = 1206 Green LEDs
  D2 = 1206 Red LED
- Solder the 2 resistors next.
  R1 = 10 Ω (1206) for Green LEDs
  R2 = 75 Ω (1206) for Red LED
- Solder the 4x 2-Position headers on the Front side.

BOARD/LED TYPE:

PARTS USED:

LED

Bugging you in more
ways than one.
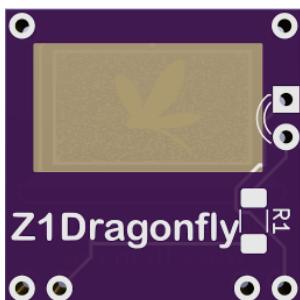
Z1Dragonfly

PERSONAL MINIBADGE

More than a Bug

Designed By: Z1Dragonfly

This badge is a play on words. My Namesake, The dragonfly is a "bug" and my Pun-loving mind found a joke. To most people if I'm "bugging you" I am being pretty annoying, but in the cybersecurity community I could be a bug in your code, or a bug to spy on you. This Minibadge is my first step into PCB design, as I learned to use KiCad. I hope you enjoy!

DIFFICULTY:

BEGINNER

RARITY:

RARE

HOW DO I GET ONE?
In order to obtain this Minibadge, find me and bring something in exchange.
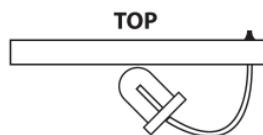
ASSEMBLY INSTRUCTIONS:

Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.

ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- Solder the single resistor first.
  R1 = 75 Ω (1206) for Red LED
- Solder the LED so that it is connected on the back-side of the board, with a minimum of 1/2" standoff so the LED can be bent slightly - inward.
  D1 = 3mm Red LED
- After soldering, carefully bend the LED around until it is resting on the back of the board as shown above.
- Cut one of 2-Position headers and place a single pin in each hole at the top.

BOARD/LED TYPE:

TOP

PARTS USED:

PERSONAL MINIBADGE

Pikachu

Designed By: TGalvez

For all Pokemon players out there, we bring you Pik...achooo! Bless you!

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?
Find Z3ThunderKitty and tell her your favorite Pokemon Character.

RARITY:

RARE

ASSEMBLY INSTRUCTIONS:
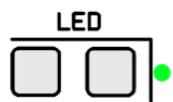
Please visit https://minibadges.zevlag.com/buildguides/Zevlag-Minibadges-2023.pdf for the most updated and prettiest presentation of these instructions.
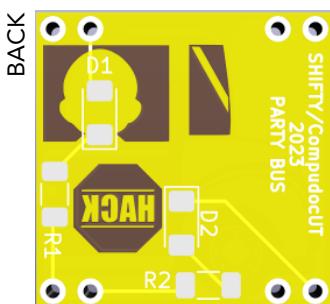
ASSEMBLY INSTRUCTIONS:
- Begin on the Back side.
- LED Direction indicators are on the image above, and on the board with icons.
- Solder the 3 LEDs first.
  D1 = 1206 Red LEDs
  D2, D3 = 0805 Yellow LED
- Solder the 2 resistors next.
  R1 = 100 Ω (1206) for Red LEDs
  R2 = 75 Ω (1206) for Yellow LED
- Solder the 4x 2-Position headers on the Front side.

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

Hack Bus Front #1

Designed By: CompuDoc/Shifty

1 of 3 Standard Badges that make a school bus for hackers it is designed to be expandable changeable and more sections will come in the future the front and back may be packaged together there are only 30 of each section this year

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?
Trade with me or Ask for one
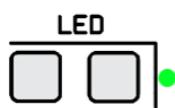
RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

Instructions will be posted to GitHub https://github.com/CompuDocUt/SaintConMinibadges

BOARD/LED TYPE:

LED
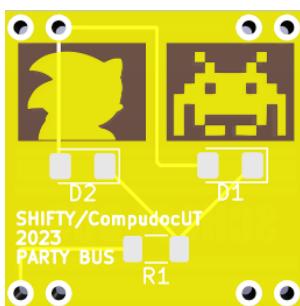
PARTS USED:
May be found on GitHub

PERSONAL MINIBADGE

Hack Bus Middle #2

Designed By: CompuDoc/Shifty

2 of 3 Standard Badges that make a school bus for hackers it is designed to be expandable changeable and more sections will come in the future the front and back may be packaged together there are only 30 of each section this year

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?

Trade with me or Ask for one

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

Instructions will be found on Git Hub https://github.com/CompuDocUt/SaintConMinibadges

BOARD/LED TYPE:

LED
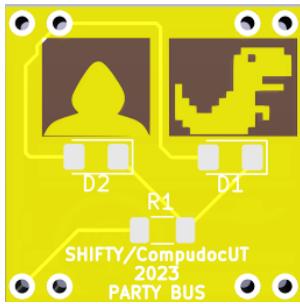
PARTS USED:
See Git Hub

PERSONAL MINIBADGE

Hack Bus Back #3

Designed By: CompuDoc/Shifty

3 of 3 Standard Badges that make a school bus for hackers it is designed to be expandable changeable and more sections will come in the future the front and back may be packaged together there are only 30 of each section this year

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?

Trade with me or Ask for one

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:
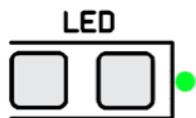
Instructions will be found on GitHub https://github.com/CompuDocUt/SaintConMinibadges
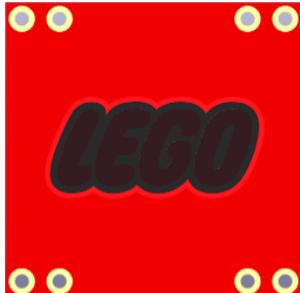
BOARD/LED TYPE:
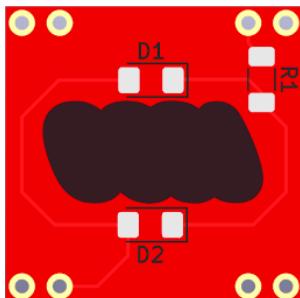
PARTS USED:

See GitHub

PERSONAL MINIBADGE

Lego

Designed By: Jup1t3r

This is my personal LEGO minibadge for fans of Lego.   Backlit and beautiful

BACK

DIFFICULTY:

INTERMEDIATE

RARITY:

UNCOMMON

HOW DO I GET ONE?
Find Jup1t3r while he is at the Badge Life Community Booth, and while supplies last.
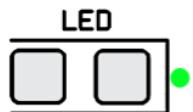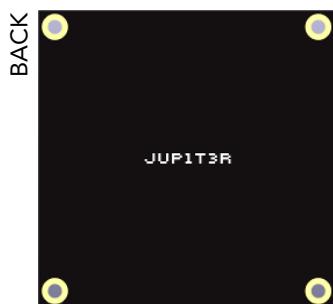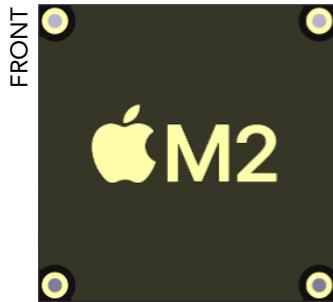
ASSEMBLY INSTRUCTIONS:

Simple SMD LED install

BOARD/LED TYPE:

LED

PARTS USED:

PERSONAL MINIBADGE

Apple M2

Designed By: Jup1t3r

As an Apple Product fan and evangelist, I figured we'd upgrade the processing power of the MiniBadge Board this year with custom "who knows what really goes on in there" silicon.

DIFFICULTY:

BEGINNER

RARITY:

RARE

HOW DO I GET ONE?
Find Jup1t3r while at the Badgelife Booth
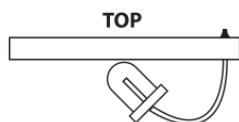
ASSEMBLY INSTRUCTIONS:
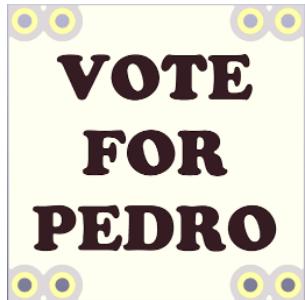
Just needs Header Pins

BOARD/LED TYPE:

TOP
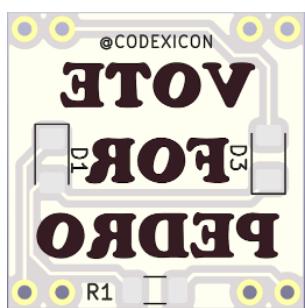
PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Vote for Pedro

Designed By: Codexicon
Standard Vote for Pedro bade for Napoleon Dynamite fans.

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?
Find Codexicon around the conference.

RARITY:
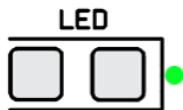
RARE
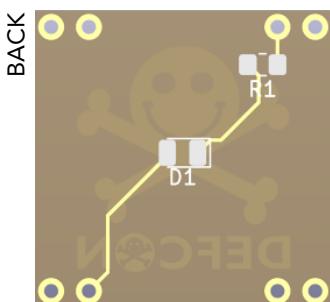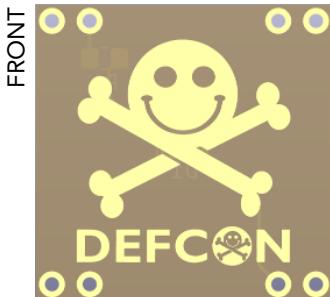
ASSEMBLY INSTRUCTIONS:

Standard SMD mounting.

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

DEFCON Badge

Designed By: Jup1t3r

As a fan of DEFCON, Im giving this away to anyone who has NEVER BEEN to DEFCON.

DIFFICULTY:

ADVANCED

RARITY:
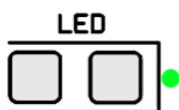
RARE
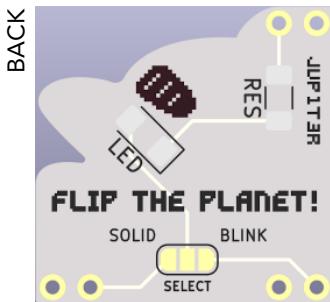
HOW DO I GET ONE?

Find Jup1t3r while he is at the BadgeLife Booth, and let him know that you have Never been to DEFCON and need encouragement to go at least once.

ASSEMBLY INSTRUCTIONS:

Standard SMD Soldering

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

Flipper Badge

Designed By: Jup1t3r
Flipper Badge

DIFFICULTY:

INTERMEDIATE

RARITY:

UNCOMMON

HOW DO I GET ONE?
You have to come to Jup1t3r's Epic Flipper Talk, and you will get one as supplies last.
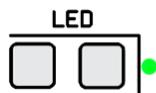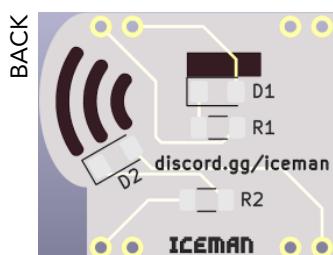
ASSEMBLY INSTRUCTIONS:

Standard SMD Soldering

BOARD/LED TYPE:

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Iceman RFID Badge

Designed By: Iceman

This badge will encourage you to get your RFID on!   And to meet me: "The Iceman"

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?

Find Iceman around the conference event, introduce yourself, and request one.
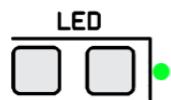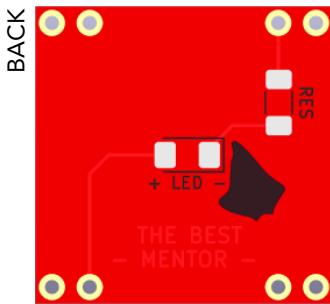
ASSEMBLY INSTRUCTIONS:

Standard SMD Soldering

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

JLS3 Badge

Designed By: Jup1t3r

This is a tribute badge to one of the Best Mentors of my life, and wonderful friend.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?

Get this badge from JLS3. He usually hangs out around the Education Security Community
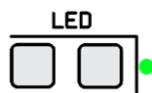
ASSEMBLY INSTRUCTIONS:
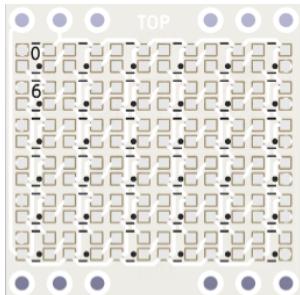
Standard SMD Soldering

BOARD/LED TYPE:
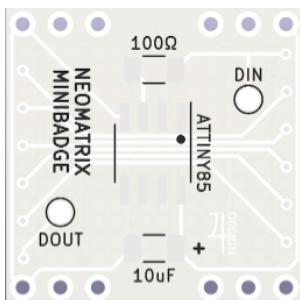
PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Neopixel Matrix

Designed By: Jup1t3r

If you have one, you will know why.

DIFFICULTY:

STUPID HARD

RARITY:

SUPER RARE

HOW DO I GET ONE?
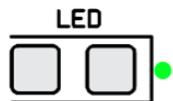
These badges are NOT available publicly, they are GIVEN to people for their service to the Community

ASSEMBLY INSTRUCTIONS:

These badges will come pre-assembled

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

Trooper Badge

Designed By: Jup1t3r

As a Star Wars Fan, I figured that it would be good to continue the roll-out of the next character, a Storm Trooper.

DIFFICULTY:

INTERMEDIATE

RARITY:

UNCOMMON

HOW DO I GET ONE?

Find Jup1t3r while he is at BadgeLife Booth, and ask for one.
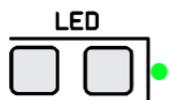
ASSEMBLY INSTRUCTIONS:

Standard SMD soldering

BOARD/LED TYPE:

PARTS USED:

PERSONAL MINIBADGE

Wookie Badge

Designed By: Jup1t3r

As a Star Wars Fan, I have created a Masterpiece on a PCB. Introducing the short-wookie Badge

DIFFICULTY:

### INTERMEDIATE

RARITY:

SUPER RARE

HOW DO I GET ONE?
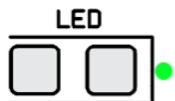
These Badges are given out to people who contribute to the Community and to SAINTCON. They are not publicly available.

ASSEMBLY INSTRUCTIONS:
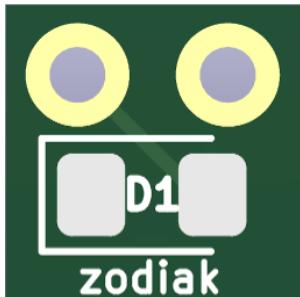
Standard SMD soldering

BOARD/LED TYPE:

LED
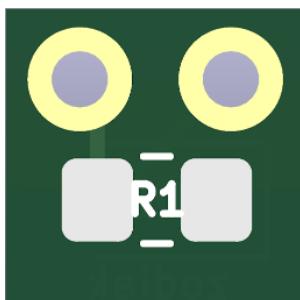
PARTS USED:

PERSONAL MINIBADGE

MicroBadge

Designed By: Zodiak

We're going Micro with this personal MicroBadge from Zodiak

ASSEMBLY INSTRUCTIONS:

STandard SMD soldering

DIFFICULTY:

ADVANCED

RARITY:

RARE

HOW DO I GET ONE?

Find Zodiak and ask for one of these tiny things.
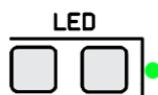
BOARD/LED TYPE:

PARTS USED:

WHERE'S THE KABOOM?
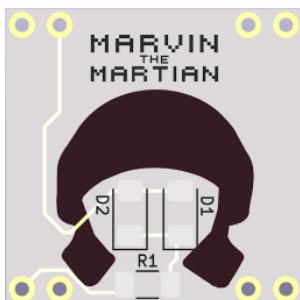
PERSONAL MINIBADGE

Marvin the Martian

Designed By: Berly

Marvin the Martian

BACK

MARVIN
THE
MARTIAN

D2 D1

R1

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?
Find Berly around the conference center and get one from her!

RARITY:
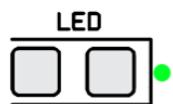
RARE
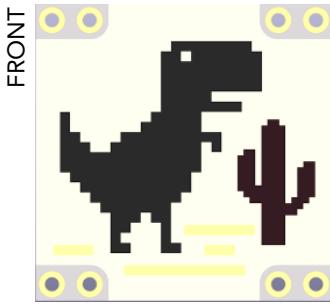
ASSEMBLY INSTRUCTIONS:

Standard SMD soldering

BOARD/LED TYPE:

LED

PARTS USED:
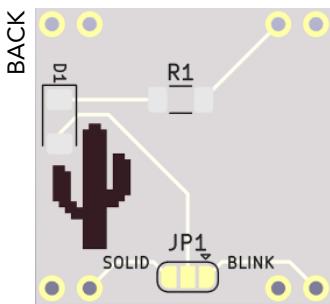
PERSONAL MINIBADGE

Dino-Jump Badge

Designed By: Berly

For those of you who like to mash keys when the internet is not working!!! You know who you are.

DIFFICULTY:
INTERMEDIATE

RARITY:
RARE

HOW DO I GET ONE?
Find Berly around the conference and ask for one.
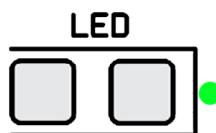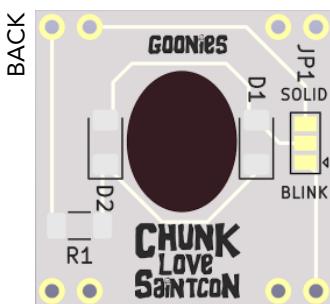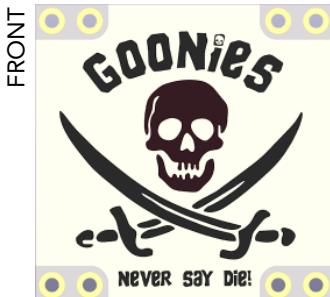
ASSEMBLY INSTRUCTIONS:

Standard SMD Soldering

BOARD/LED TYPE:

PARTS USED:

LED

PERSONAL MINIBADGE

Chunk Loves SAINTCON Badge

Designed By: Chunk

Inspired by the Goonies, and the origin of my handle, this fan art badge is my bade of choice this year.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?
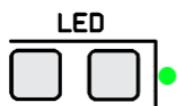
Find Chunk during the conference, usually hiding in a network closet.

ASSEMBLY INSTRUCTIONS:

Standard SMD soldering

BOARD/LED TYPE:

PARTS USED:

170
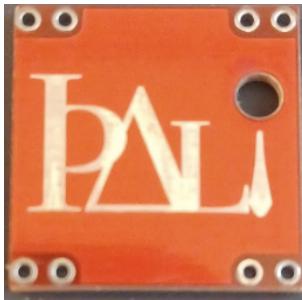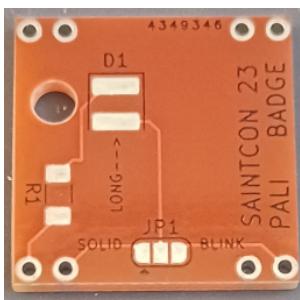
FRONT

BACK

PERSONAL MINIBADGE

PALI 2023

Designed By: Pali (Bryce Fox)

This mini-badge features a symbol that represents my hacker handle with an LED that shines through the hole in the badge.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE

HOW DO I GET ONE?

Trade me something I don't already have. That will usually be a non-SAINTCON official mini-badge. I am the tall committee member who runs the SAINTCON Store.

ASSEMBLY INSTRUCTIONS:

1 through hole 3mm LED where the LED stick into the hole in the badge from the back and then has bent over legs that connect to D1 surface pads. The long leg attaches to the pad that has LONG pointing to it.
1 SMD style (10 ohm) resistor that connects to the R1 pads where the orientation will not matter.
There is a SOLID / BLINK solder blob switch JP1 where you will have to bridge two of the three switch pads with a solder blob to define the LED behavior.
Most LEDs (UV flicker or Diffused Multicolor slow rotation) included with the badge will look nicer with the SOLID setting.

BOARD/LED TYPE:

MULTI COMPONENT
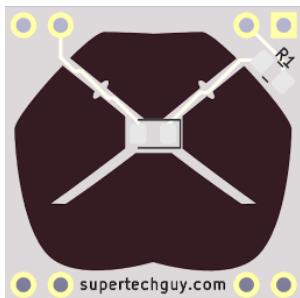
PARTS USED:
3mm through hole LED, 10 ohm SMD resistor

PERSONAL MINIBADGE

Supertechguy Badge

Designed By: Supertechguy

The personal Minibadge for Supertechguy

DIFFICULTY:

ADVANCED

RARITY:

RARE

HOW DO I GET ONE?
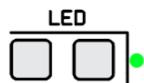
Find Supertechguy at the conference and ask him about the pink unicorn story. Don't leave till he tells you about it.
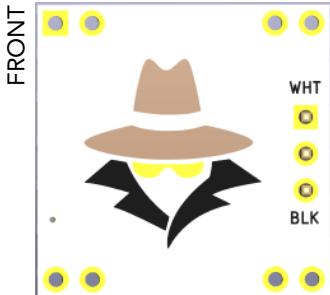
ASSEMBLY INSTRUCTIONS:

Please pay close attention to the LED direction on the back because it is not well marked due to the way the board was made.

BOARD/LED TYPE:

PARTS USED:

WHT

BLK

WHT

BLK

PERSONAL MINIBADGE

White or Black Hat?

Designed By: YodaMaster

Inspired by spy vs spy and the concept of white hat hackers and black hat hackers. Using a jumper you can switch between being a white hat hacker or a black (uv led) hat hacker. Badge comes in white solder mask with black silkscreen or black solder mask with white silkscreen

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?

Trade or just ask me.

RARITY:
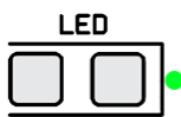
UNCOMMON

ASSEMBLY INSTRUCTIONS:
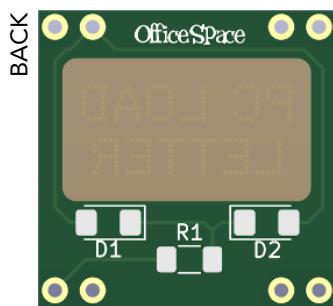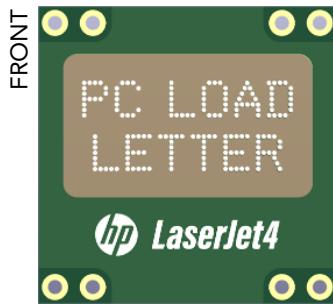
Use single pad method to solder on surface mount components
LED that appears yellowish is the white one the other is UV (watch diagram anodes for LEDs are towards the center
solder short side of 3 pin header to minibadge. Hack it any way you want (front, back, in, or out) so that you can use the included jumper to pick which light you want lit.
solder on the 4- 2 pin headers

BOARD/LED TYPE:

LED

PARTS USED:

1206 UV LED
1206 White LED
2 - 1206 resistors sized to LEDs
4 - 2pin headers
1 - 3pin right angle header
1 - jumper

FRONT

BACK

PERSONAL MINIBADGE

PC Load Letter Badge

Designed By: Jup1t3r
You need to watch Office Space!

DIFFICULTY:
INTERMEDIATE

RARITY:
RARE

HOW DO I GET ONE?
Come and find Jup1t3r while he is at the Badgelife Booth to get one of these.
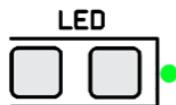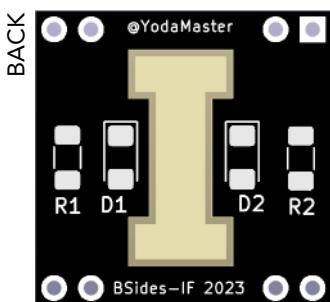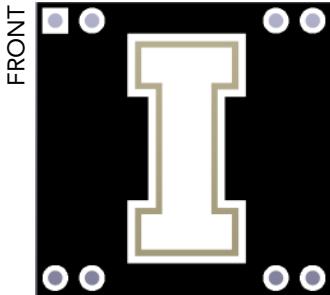
ASSEMBLY INSTRUCTIONS:

Standrd SMD soldering

BOARD/LED TYPE:

PARTS USED:

@YodaMaster

R1 D1   D2 R2

BSides—IF 2023

PERSONAL MINIBADGE

University of Idaho

Designed By: YodaMaster

UI sponsored BSides - Idaho Falls this year and to celebrate/thank them for the sponsorship I created this badge with the UI I-Bar logo on it.

DIFFICULTY:

INTERMEDIATE
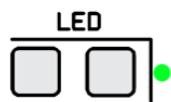
HOW DO I GET ONE?

Ask me, trade with me, or give me your bestest most proud "Go Vandals!" cheer.

RARITY:

UNCOMMON

ASSEMBLY INSTRUCTIONS:

use single pad method to solder on surface mount components.
Look at diagram anode of LEDs goes towards the top
solder on the 4 - 2 pin headers
pay attention to text on back for direction. LEDs won't light up if badge is upside down
Hot glue on LEDs and exposed substrate makes the I-bar glow better

BOARD/LED TYPE:

LED

PARTS USED:
2 - 1206 yellow LEDs
2 - 1206 resistors sized for LEDs (56 ohm)
4 - 2 pin headers

FRONT

BACK

PERSONAL MINIBADGE

FoxyCorn

Designed By: MiaBiaLia

MiaBiaLia loves foxes and unicorns so she decided she wanted a minibadge to display both

DIFFICULTY:

BEGINNER

RARITY:

RARE
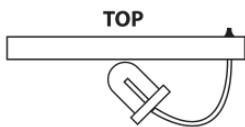
HOW DO I GET ONE?

MiaBiaLia will be at family night. She would love to trade or you can just ask her for one. YodaMaster may have some on hand Friday as well

ASSEMBLY INSTRUCTIONS:

Mount LED on the back and bend it over so it is in the middle of the badge.
Anode (short end of LED goes in the square hole)
solder on top and snip legs off
solder on the 4 - 2pin headers

BOARD/LED TYPE:

TOP
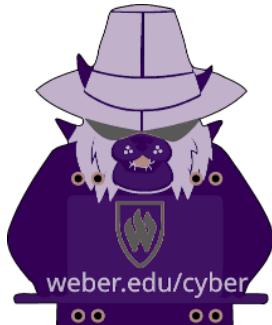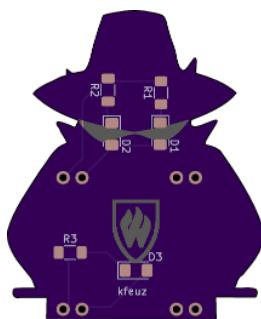
PARTS USED:

1 5mm slow flash THT LED
4 - 2pin headers

PERSONAL MINIBADGE

Cybersecurity and Network Management - HackerWaldo Cutout

Designed By: Weber State Univeristy - kfeuz

This is an official minibadge of the Weber State University Cybersecurity and Network Management Program. It features our mascot Waldo the Wildcat in his hacking gear.

DIFFICULTY:

INTERMEDIATE
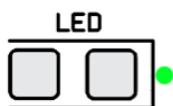
RARITY:

UNCOMMON

HOW DO I GET ONE?

We will be handing these out like candy. We will try to have a stash available at the soldering tables as well.

ASSEMBLY INSTRUCTIONS:

Solder the 470 ohm resistors on R1 and R2.
Solder the 100 ohm resistor on R3.
Solder the green leds on D1 and D2.
Solder the white led on D3

BOARD/LED TYPE:

LED
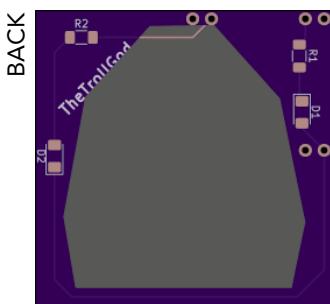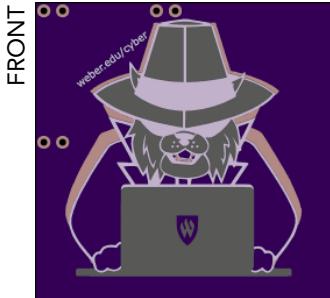
PARTS USED:

470 ohm resistor 1206 x2
100 ohm resistor 1206
green led 1206 x 2
white led 1206

PERSONAL MINIBADGE

Cybersecurity and Network Management - HackerWaldo Square

Designed By: Weber State University - TheTrollGod

This is an official minibadge of the Weber State University Cybersecurity and Network Management Program. It features our mascot Waldo the Wildcat in his hacking gear.

DIFFICULTY:

INTERMEDIATE
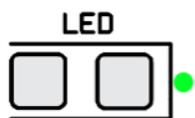
RARITY:

UNCOMMON

HOW DO I GET ONE?

We will be handing these out like candy. We will also hopefully have a stash at the soldering tables.

ASSEMBLY INSTRUCTIONS:

Solder the 100 ohm resistors to R1 and R2
Solder the red leds to D1 and D2

BOARD/LED TYPE:

LED
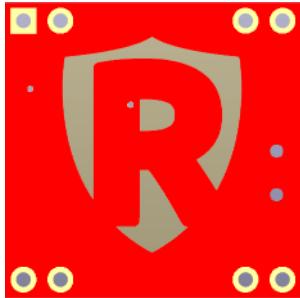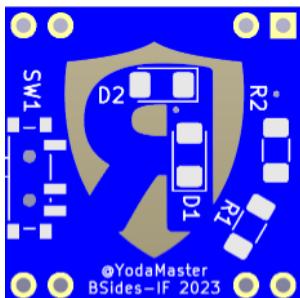
PARTS USED:
100 ohm resistor 1206 x2
red led 1206 x2

PERSONAL MINIBADGE

RADICL

Designed By: YodaMaster

Inspired by the logo for University of Idaho's Reconfigurable Attack Defend Instructional Computing Laboratory (RADICL). RADICL allows students to be on the red team or the blue team depending on the exercise... this badge's switch allows you to choose the red team or the blue team

BACK

DIFFICULTY:	HOW DO I GET ONE?
INTERMEDIATE	Ask me or trade with me

RARITY:

RARE

ASSEMBLY INSTRUCTIONS:

use single pad method to solder on surface mount components
LED with blue paint on the package goes with resistor with blue marking (Ie. D1 and R1)
LED with red goes with resistor with red marking (D2 and R2)
solder switch on to the bottom of the badge 2 holes in board should keep it from moving and align switch to the edge of the mini badge
solder on the 4- 2pin headers
hot glue over LEDs and exposed substrate evens out the light and makes this badge pop
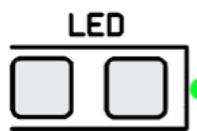
BOARD/LED TYPE:

LED
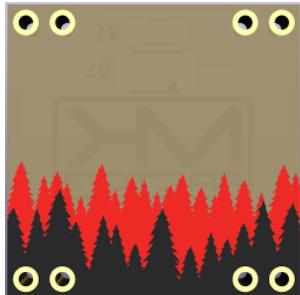
PARTS USED:

1 1206 blue led
1 1206 red led
1 1206 10ohm resistor
1 1206 56ohm resistor
1 SPDT surface mount right angle switch (MSK-12C02)
4 2 pin headers

PERSONAL MINIBADGE

Compukidmike - Sunset

Designed By: Compukidmike

I wanted to try something different this year so I used a 4-layer PCB. The idea was to get multiple layers of mountains and background for the sunset. Unfortunately the PCB diffuses the light too much to get the desired effect. I may try again with a thinner PCB to get the effect I want.

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?
Find me and ask for one! Once they're gone, that's it!
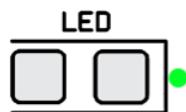
ASSEMBLY INSTRUCTIONS:

Solder the LED and resistor on the back. The LED is reverse-mount, so it shines directly into the PCB. It has a notched corner that you align with the triangle on the board.

BOARD/LED TYPE:

LED
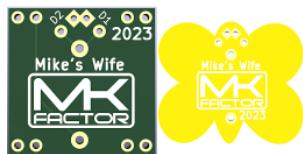
PARTS USED:
Yellow Reverse-Mount LED - VLRE31R1S2-GS08

PERSONAL MINIBADGE

Butterfly

Designed By: Mike's Wife

I wanted to use a flex PCB and came up with the butterfly. It uses a large resistor and through-hole LEDs to hold the flex PCB to the minibadge board.

DIFFICULTY:

INTERMEDIATE

RARITY:

UNCOMMON

HOW DO I GET ONE?

Find me and ask for one!
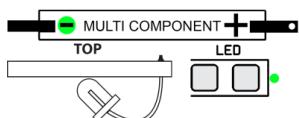
ASSEMBLY INSTRUCTIONS:

Solder the pins to the minibadge board first. Then align the flex PCB on top and put the resistor legs through the flex PCB and into the minibadge board. This will hold the two PCBs together. Do the same with the LEDs. Place them partway through the top of the flex PCB and into the minibadge board, bending the LEDs down to form the butterfly's antennae. Once you have things aligned, solder the resistor and LEDs.

BOARD/LED TYPE:

PARTS USED:

MULTI COMPONENT

TOP   LED

PERSONAL MINIBADGE

Unstoppable

Designed By: Honki/Mike's Wife

I used to suffer from short arms, but now that I've got my grabber claws I'm unstoppable!

DIFFICULTY:

BEGINNER

HOW DO I GET ONE?
Ask for one. Trades are always appreciated.

RARITY:
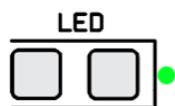
RARE
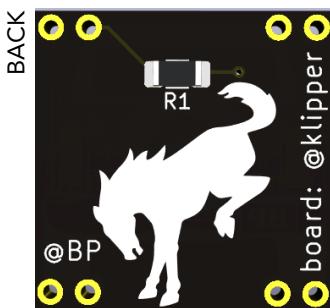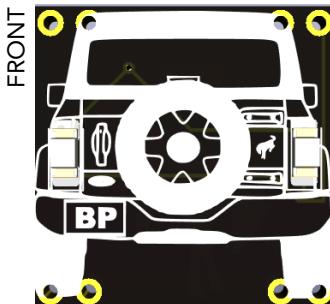
ASSEMBLY INSTRUCTIONS:

Solder the resistor and two red LEDs on the back.

BOARD/LED TYPE:

LED

PARTS USED:

PERSONAL MINIBADGE

Bronco Badge

Designed By: @bp and @klipper

The rear-view of a classic off-roading vehicle reborn. Red LED as tail-lights and the iconic bucking horse logo on the back. Since I love my Bronco, thought it'd be fun to have a minibadge of it. Special thanks to @klipper and @spamwizard for design assistance.

DIFFICULTY:

BEGINNER

RARITY:
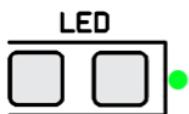
UNCOMMON

HOW DO I GET ONE?

Come find me and trade with me! This is my second SAINTCON and still meeting people / learning names and faces so come swap a cool off-roading story with me, or talk about your favorite vehicle you've driven. Or just come hand me a badge and I'll give you one back...or come ask nicely. Or bring me icecream. Really, anything.

ASSEMBLY INSTRUCTIONS:

Solder the resistor on the back, and the LED's on the front. Watch the silkscreen for polarity.

BOARD/LED TYPE:

LED

PARTS USED:

FRONT

BACK

PERSONAL MINIBADGE

Spooky, Scary Skeletons

Designed By: distinctm1nd
Who wouldn't want a spooky, scary skeletons minibadge!

DIFFICULTY:
ADVANCED

HOW DO I GET ONE?
Trade with me

RARITY:
SUPER RARE
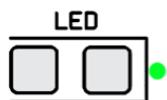
ASSEMBLY INSTRUCTIONS:

Start on the back of the main board. Solder D1 (0805) and D2 (0805) following the LED orientation in the guide. Solder R1 (0805). Solder the 2.54mm 2 pin female header for the add-on. Solder the 2.54mm male headers to the corners of the badge.

For the add-on, solder the resistor (0603) to R1 and the led (0402) to D1. Solder the 2.54mm 2 pin male header and connect to the main badge.

Optional but recommended - apply hot glue to cover the moon and 2 LEDs on the back of the main board to evenly disperse the light from the LEDs.
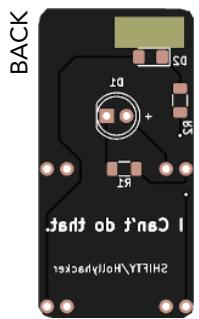
BOARD/LED TYPE:

PARTS USED:
Main Board: D1, D2: SMD 0805 white light LED, R1: SMD 0805 15 ohm resistor, 3- 2.54mm 2 pin male headers, 1- 2.54mm 2 pin female header.

Add-on: D1: SMD 0402 white light LED, R1: SMD 0603 15 ohm resistor, 2.54mm 2 pin male header

PERSONAL MINIBADGE

Hal9000

Designed By: David Bowman - Hollyhacker

It's a little known fact that the character name of the primary astronaut in A Space Odyssey 2001 is David Bowman …

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?

Trade

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

Assembly Video
http://fireboltservices.weebly.com/minbadges.html

BOARD/LED TYPE:

LED
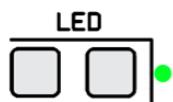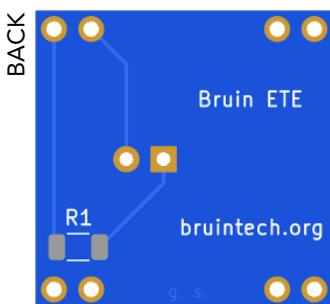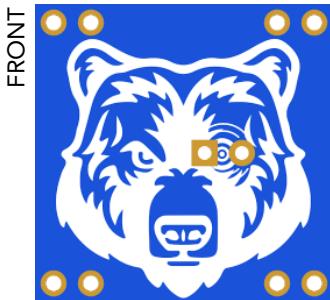
PARTS USED:

5mm LED Diode Straw Hat Red
1206 Red SMD LED
1206 100r Resistor

FRONT

PERSONAL MINIBADGE

Bionic Bruins Badge

Designed By: Bruin ETE

This is the official logo of the Twin Falls Bionic Bruins robotics team. It features a 3mm THT LED that will act as an eye. Shout out to Mister X for helping get this minibadge designed!

BACK

Bruin ETE

bruintech.org

R1

g. s.

DIFFICULTY:

BEGINNER

RARITY:

SUPER RARE

HOW DO I GET ONE?

Because of the limited stock, you'll need to talk to Mister X about getting one.
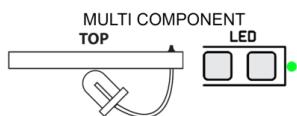
ASSEMBLY INSTRUCTIONS:

- Begin on the front side first.
- Solder the LED first, with the short end going through the square hole and solder the connection on the back.
- Switch to the back and solder the resistor using single-pad method for hand soldering.
- Solder the 4x 2-Position headers, with the Bionic Bruins artwork facing out.

BOARD/LED TYPE:

MULTI COMPONENT

TOP

LED

PARTS USED:

PERSONAL MINIBADGE

Shodan

Designed By: zodiak/spamwizard

Maybe this minibadge is the only thing you own that has been on Shodan. Probably not.

DIFFICULTY:

INTERMEDIATE

RARITY:

RARE
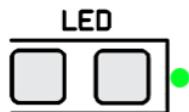
HOW DO I GET ONE?

Find zodiak. Come with a trade, a favor, or Chocolate milk. If you can't do that, maybe a good joke or a small ditty performance will do.

ASSEMBLY INSTRUCTIONS:

LED where the LEDs go. Resistor where the resistors go. Pins where the pins go.

BOARD/LED TYPE:
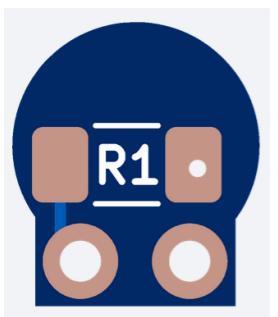
PARTS USED:

1206 LED
1206 resistor
pins

PERSONAL MINIBADGE

MicroBadge #2

Designed By: Zodiak's idea. Shifty's execution.

A variant of the other MicroBadge. Though slightly less micro.

DIFFICULTY:

## ADVANCED

RARITY:

COMMON

HOW DO I GET ONE?
Come find Zodiak. He has piles of these...
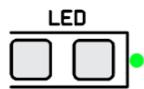
ASSEMBLY INSTRUCTIONS:

Due to quantity, these don't have all the parts. I have some parts, but waaaaaaaay more PCB's than I have parts. You can buy any old 1206 LED and 1206 resistor (probably in the 50-200 ohm range).
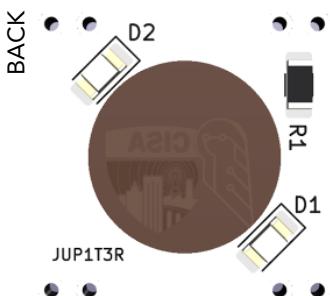
Once you have the parts, put the resistor on, then the LED. Once you have that, test fit the header pins (AKA: DO NOT SOLDER UNTIL YOU KNOW THE CORRECT ORIENTATION), and put it in your badge. It will work in the top left corner, or either of the right corners, but you have to manipulate the orientation of the microbadge depending on where you put it. Consider this an experiment. You can't break things, so play with it. Get it to light in the spot you desire. Once you are happy, solder the headers and enjoy.

BOARD/LED TYPE:

PARTS USED:
PCB
1206 resistor
1206 LED
2 header pins

FRONT

BACK

OTHER/AFFILIATE MINIBADGE

CISA Minibadge

Designed By: Jup1t3r

CISA is the operational lead for federal cybersecurity and the national coordinator for critical infrastructure security and resilience. We are designed for collaboration and partnership. Learn about our layered mission to reduce risk to the nation's cyber and physical infrastructure.

D2

R1

D1

JUP1T3R

DIFFICULTY:

BEGINNER
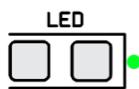
RARITY:

UNCOMMON

HOW DO I GET ONE?

Find one of the CISA folks and ask them for one!

ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:

1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

FRONT

BACK

OTHER/AFFILIATE MINIBADGE

SIAC MINIBADGE

Designed By: Jup1t3r

The Utah Statewide Information and Analysis Center (SIAC) is one of 80 fusion centers located throughout the U.S. that collaborates with local and federal public safety partners to create information-sharing networks. The SIAC, like other fusion centers, works as an integral conduit to the United States intelligence community.

DIFFICULTY:
BEGINNER

RARITY:
UNCOMMON

HOW DO I GET ONE?
Find one of the great SIAC folks and ask for one.
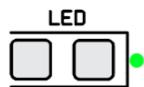
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.
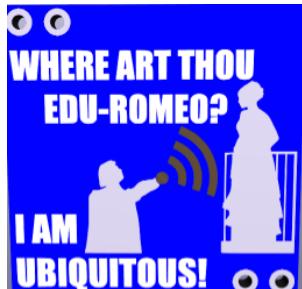
BOARD/LED TYPE:
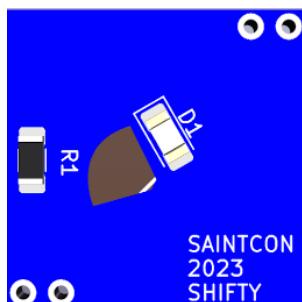
PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

OTHER/AFFILIATE MINIBADGE

EDUROAM MINIBADGE

Designed By: EDU-ROMEO

Eduroam allows students, researchers, teachers and staff from participating college and k12 schools to obtain secure Internet connectivity across campus, districts and schools when visiting other participating institutions by simply opening their computing device.

DIFFICULTY:

BEGINNER

RARITY:

UNCOMMON

HOW DO I GET ONE?

Find one of our state Eduroam purveyors and ask for one.
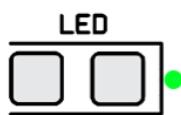
ASSEMBLY INSTRUCTIONS:

- Solder the LEDs first, using the single-pad method for hand soldering.
- Solder the resistor using the single-pad method for hand soldering.
- Solder the Pin Headers to the Badge.

BOARD/LED TYPE:

LED

PARTS USED:
1206 LED
1206 RESISTOR
FR4 PCB
2-Pin Pin Headers

SAO v1.69bis Adapter

By Brucifer

GND +3V3 PROG PROG PROG PROG GND +VBATT

GPIO1 SDA 3V3

GPIO2 SCL GND

GND +3V3 SDA SCL NC NC NC CLK

BADGE ACCESSORY

SAO Adapter

Designed By: Brucifer

This MiniBadge is an adapter that allows you to plug DEFCON SAO v1.69bis compatible SAOs into the SAINTCON badge. It only supports the 3V3, GND, SDA, and SCL pins. Without modification, it will not support the GPIO1 and GPIO2 pins.

DIFFICULTY:

BEGINNER
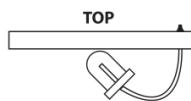
RARITY:

SUPER RARE

HOW DO I GET ONE?

Find me and show me the SAO you want to display

ASSEMBLY INSTRUCTIONS:

- Insert the 2x3 pin header through the holes on the front of the badge, aligning the position key toward the top, matching the header outline on the front of the badge
- Solder the 2x3 pin header pins on the back side of the badge
- Solder the 8-position headers

BOARD/LED TYPE:

TOP

PARTS USED:

2.54 mm 0.1" Pitch Female Pin Header Strip 2x3 Pin 6 Pin With Polarizing Key, Part#2251832874579437, aliexpress.us

BADGE ACCESSORY

Tie Minibadge Extender for the Dignified Enthusiast

Designed By: hollyhacker & SHIFTY

This is a minibadge extender for displaying additional minbadges from your conference badge. This meets the "extender standard" and should work with the last few years of badges and the new badge for 2023. This extender will allow you to display 8 additional minibadges. This supports the clock standard. (The use of this extender will accelerate the battery consumption from whatever your powering with) . This single extender design cannot be combined with another extender if it is first in line. This extender comes with all the parts needed: Cable, headers, 20P connector, and board.

DIFFICULTY:	HOW DO I GET ONE?
INTERMEDIATE	Look these up in the Saintcon Classifieds on the badgelife page for current cost and inventory.
RARITY:	
SUPER RARE	If your SAINTCON committee just show me your badge and your wish shall be granted.

ASSEMBLY INSTRUCTIONS:

This extender is assembled in a very similar if not exactly similar to the primary badge components that are done each year. I have also made a video demonstrating key considerations for assembly. https://bit.ly/48t5MS5

BOARD/LED TYPE:

MULTI COMPONENT

TOP   LED

PARTS USED:
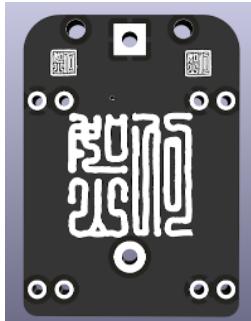
Qty 1 - 120P 2.54mm Socket Header Connector ISP Male Double-spaced Straight
Qty 1- Type 1 FC-FC 20P Ribbon Connector. Custom Ordered at 4cm
Qty 16 - Single row female 2.54MM spacing 8 Pin socket
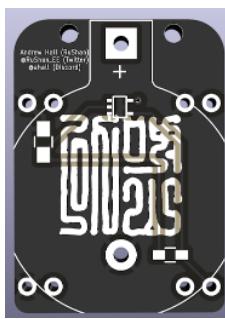
BACK

BADGE ACCESSORY

Portable minibadge holder (pendant or earring)

Designed By: RuShan

Wanted to make a portable single minibadge holder last year which was the first version. This year I updated it with a clock circuit so all minibadges (unless they need a lot of voltage) can be used and displayed on a necklace, earrings, or almost anywhere. Option to get a special simple butterfly minibadge as well.

DIFFICULTY:

ADVANCED

RARITY:

SUPER RARE

HOW DO I GET ONE?
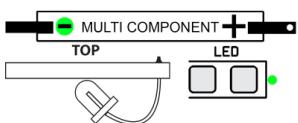
Talk to me in person or DM me on discord @ahall

ASSEMBLY INSTRUCTIONS:

https://youtu.be/-dMSakdh-0s

BOARD/LED TYPE:

MULTI COMPONENT
TOP
LED

PARTS USED:

FRONT

BADGE ACCESSORY

BADGE HOG, BADGE EXTENSION

Designed By: SHIFTY

This is an accessory designed for those oversized badges you still want to show off on your badge. There are 2 designs availble. The original Badge Hog, and the Badge Hog Submarine. The Submarine has lights that blink with the clock.

BACK

DIFFICULTY:
BEGINNER

RARITY:
SUPER RARE
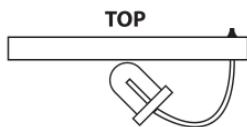
HOW DO I GET ONE?

Look these up in the Saintcon Classifieds on the badgelife page for current cost and inventory.

ASSEMBLY INSTRUCTIONS:

I recommend putting a badge in the supplied female connectors to get the correct spacing. Solder the female connectors first. Then flip the badge over and solder the pin headers. This can be difficult to do, so try not to bridge any connections. You can solder only 1 or both sides depending on if you want this to be a right, or left side extension.

BOARD/LED TYPE:

TOP

PARTS USED:

8x Female Pin Header Socket
8x Male Pin Header
FR4 PCB

FRONT

BACK

BADGE ACCESSORY

Haunting Specter Minibadge Holder

Designed By: distinctm1nd

This will hold 8 minibadges and can either be powered with the Saintcon main badge or with two AA batteries. Note: Minibadges that require the clock pin will not work with the battery option.

DIFFICULTY:

INTERMEDIATE

RARITY:

SUPER RARE

HOW DO I GET ONE?

These are $15

ASSEMBLY INSTRUCTIONS:

Assembly instructions will be provided with the badge.

BOARD/LED TYPE:

MULTI COMPONENT
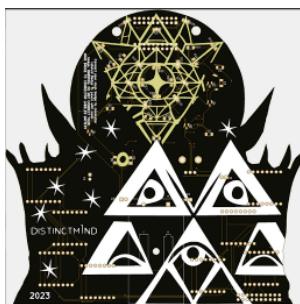
PARTS USED:

BADGE ACCESSORY

Cryptid Minibadge Expansion Board

Designed By: distinctm1nd

This expansion board will hold 8 minibadges. It can be powered either from your main Saintcon badge (as an extension to the badge) or with 2 AA batteries. Note: Minibadges that rely on the clock pin will not work with the battery option but will work if powered from the main Saintcon badge.

BACK

DIFFICULTY:

INTERMEDIATE

HOW DO I GET ONE?

You'll have to find me. They are $15

RARITY:

SUPER RARE

ASSEMBLY INSTRUCTIONS:

Assembly instructions will be provided with the badge.

BOARD/LED TYPE:

MULTI COMPONENT
TOP   LED

PARTS USED: