GreyCat2K24

the greyctf 2024 badge
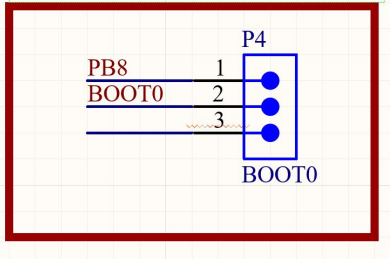
Hardware

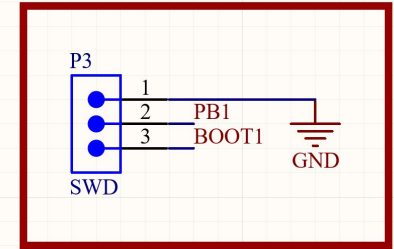# What's on the Badge

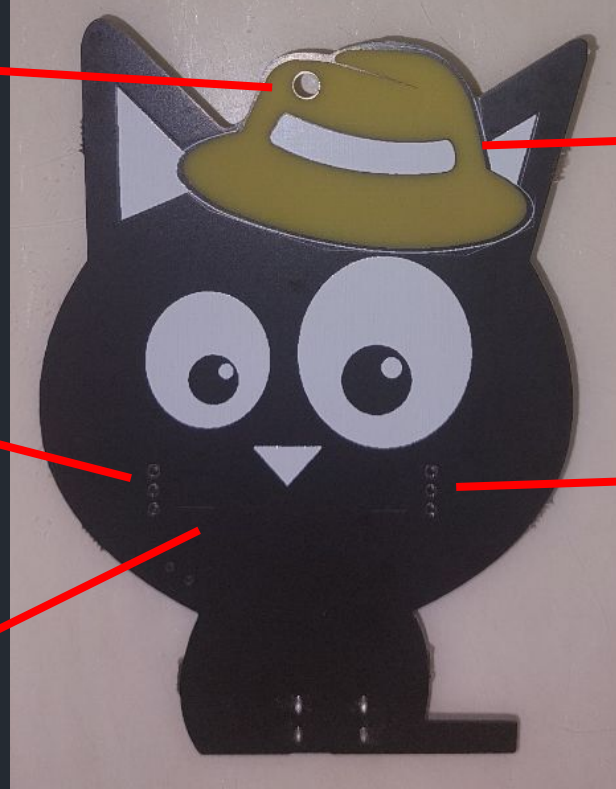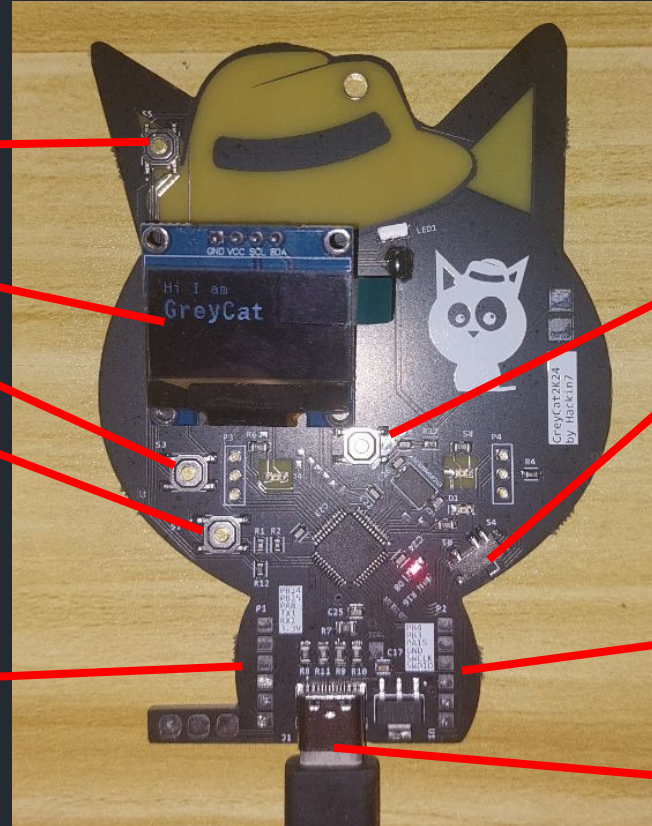Lanyard Ring

Hat

Whisker Left

P4

PB8 — 1
BOOT0 — 2
— 3

BOOT0

Whisker Right

P3

1
2 — PB1
3 — BOOT1

GND

SWD

Blush

What's on the Badge

BTN3

OLED

BTN1

BTN2

this is flipped

2 x AAA Battery Holder

RST

Switch

USB Port

P1

1	VCC3V3
2	RX1
3	TX1
4	PA8
5	PB15
6	PB14

Header 1x6

P2

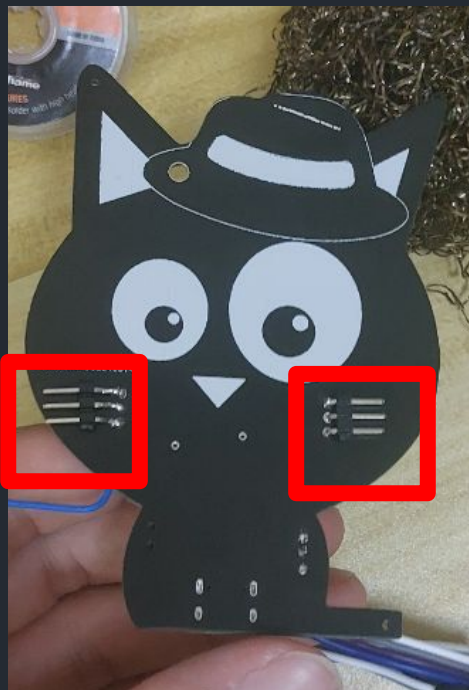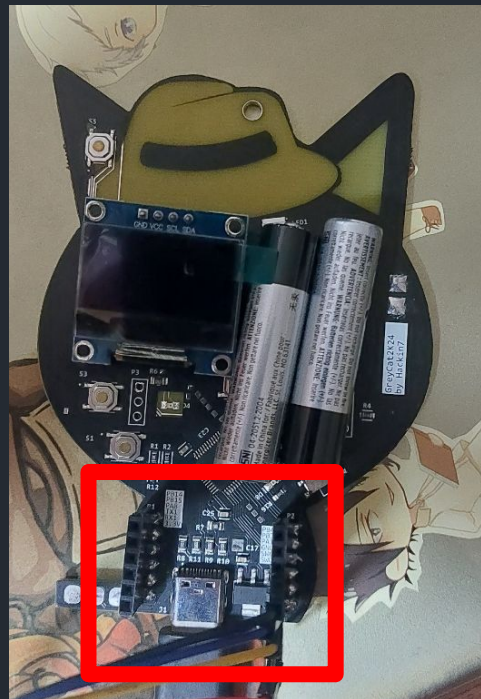|	
PB4	6
PB3	5
PA15	4
	3
SWDCLK	2
SWDIO	1

GND

Header 1x6
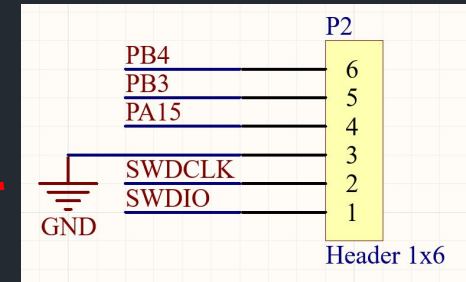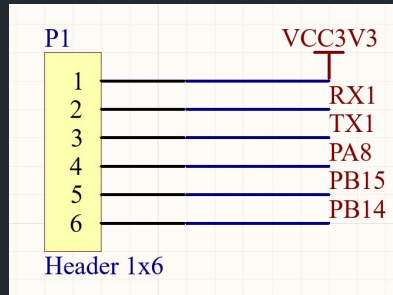
What's on the Badge

Extensions
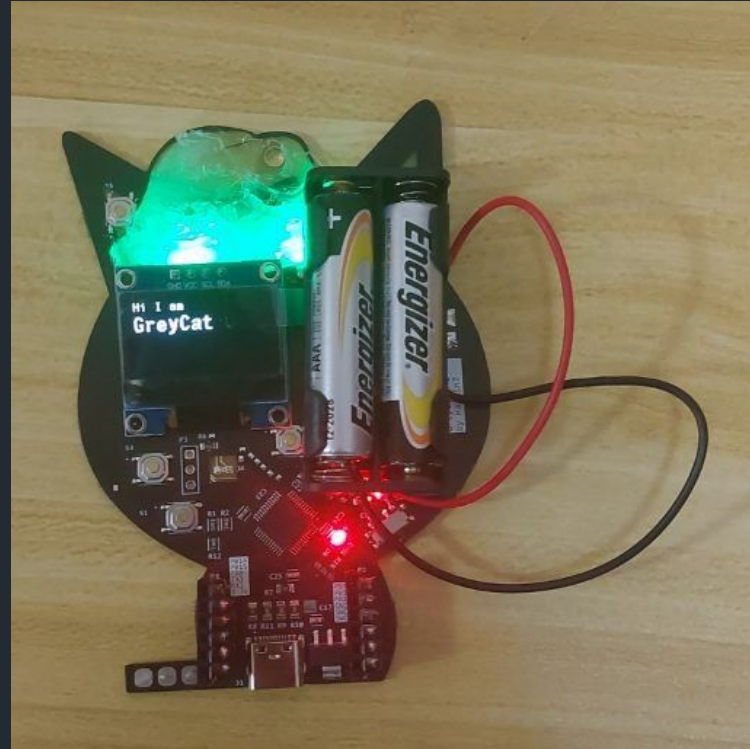
Whiskers?

Back Headers?

Features

Getting Started

Plug in a USB Cable and Turn on the Switch (if not already on

Alternatively, put AAA batteries in the battery holder and turn on
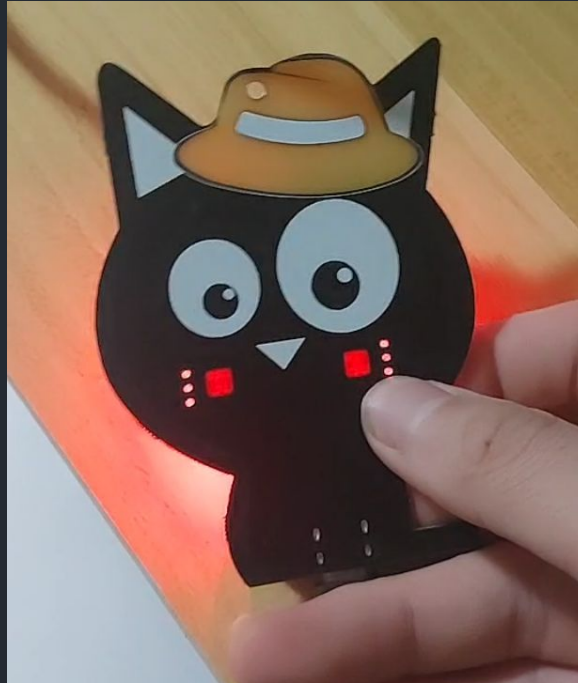
Badge Features

hearsay you can unlock more hat colours through challs, and there are 5 total
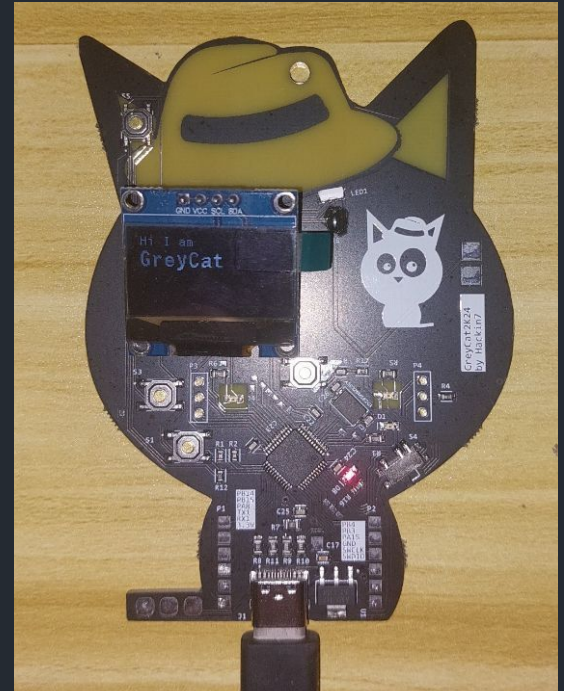
Different Hat Colours - BTN 1

Blush/ Image(?) - BTN2

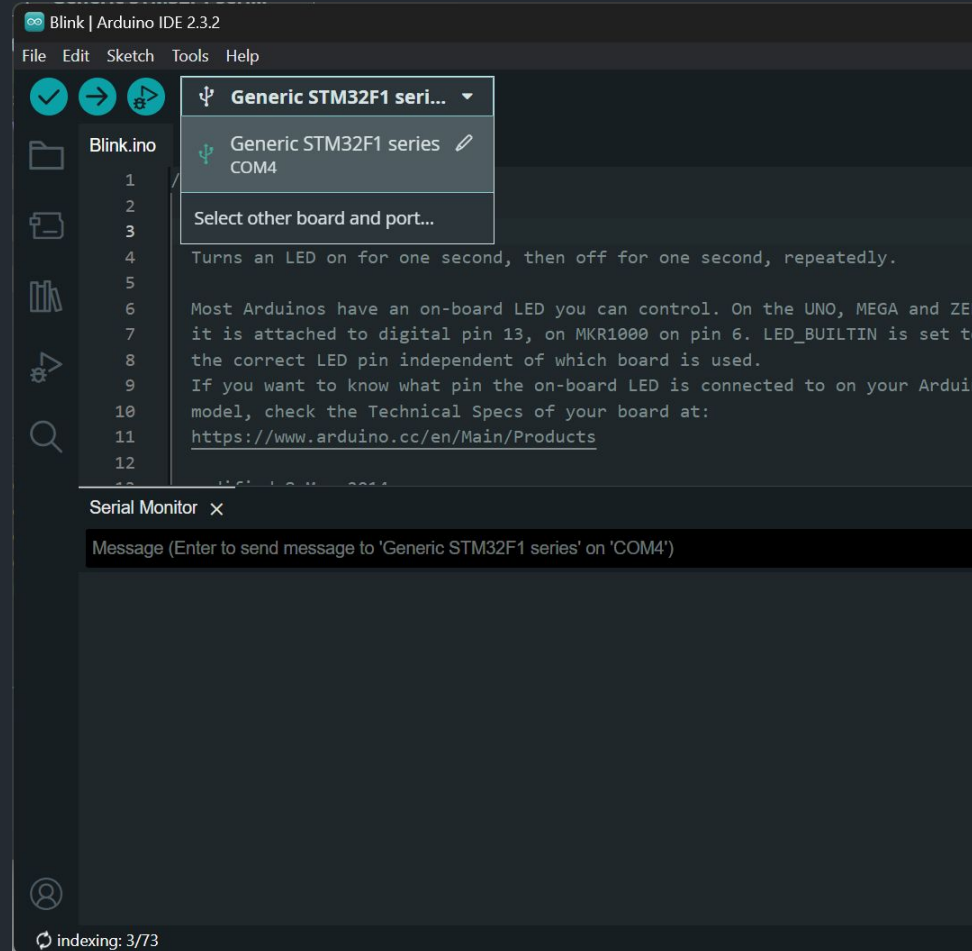**Name (and buggy img)**

USB

Open the Serial Monitor software of your choice. For ease of use, Arduino IDE can be preferred.

www.Arduino.cc

From the Tools menu, select the port where the badge is connected.

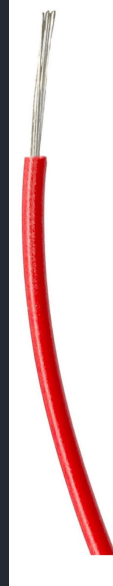Press BTN3 on the badge to start the USB interface

Operations

Issue

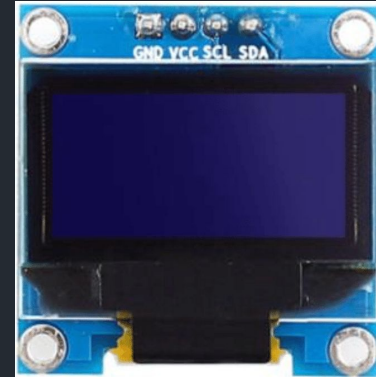At 10am we will <u>issue</u> each table the following, where **<u>Each person should get</u>**
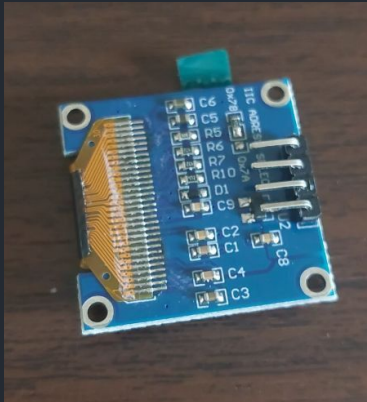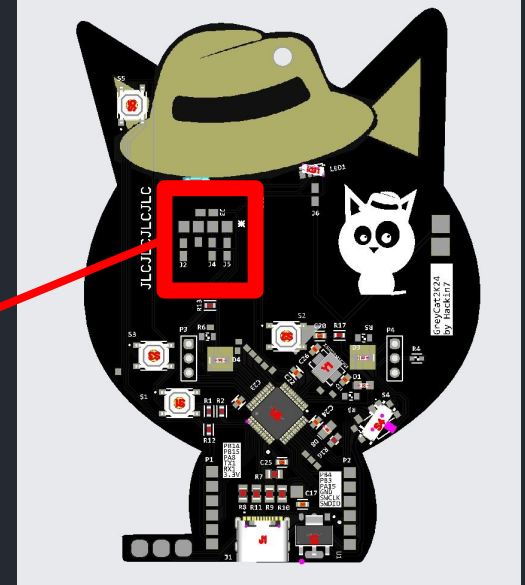
| 1 x Badge | 1 x Wire | 1 x OLED |

Assembling with OLED

1. Bend the OLED Pins 90 degrees using Pliers

   a. We can loan pliers at the Hardware Debugging Booth

2. Put into the header on the badge

OLED is <u>NOT NECESSARY</u> to solve the challenges

Header

URGENT

Make sure

1. Your computer can detect the Badge (COM Port)

2. Each Table has at least 2 Functioning badges and 2 Wires (Hint Hint)

Others

Make sure

1. OLED is working - can display Text

2. LEDs are working (can try changing modes)

3. Batteries are working

Go and find Terence at the Hardware Booth

Others

Just don't be stupid

1. We are NOT responsible for any damage you do to your badge
2. Stupid things include: connect 5v to GND, pull out the battery wires
3. If you do something troll, we reserve the right not to flash back the CTF Challenges

No Soldering here for participants (no approval so sadge)

We seek your understanding if we have technical difficulties

1. I soldered, and programmed every single board in the past 3 days so
2. Hope i didn't screw up the firmware haha

Remember to press BTN3 to start the CTF challenges

GreyCat!