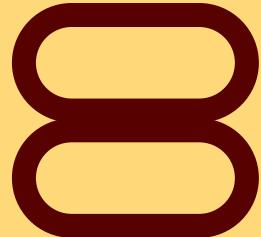
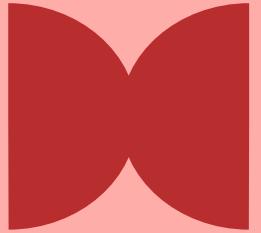


Gaming Handheld

Ethan Quigley
12/19/2025

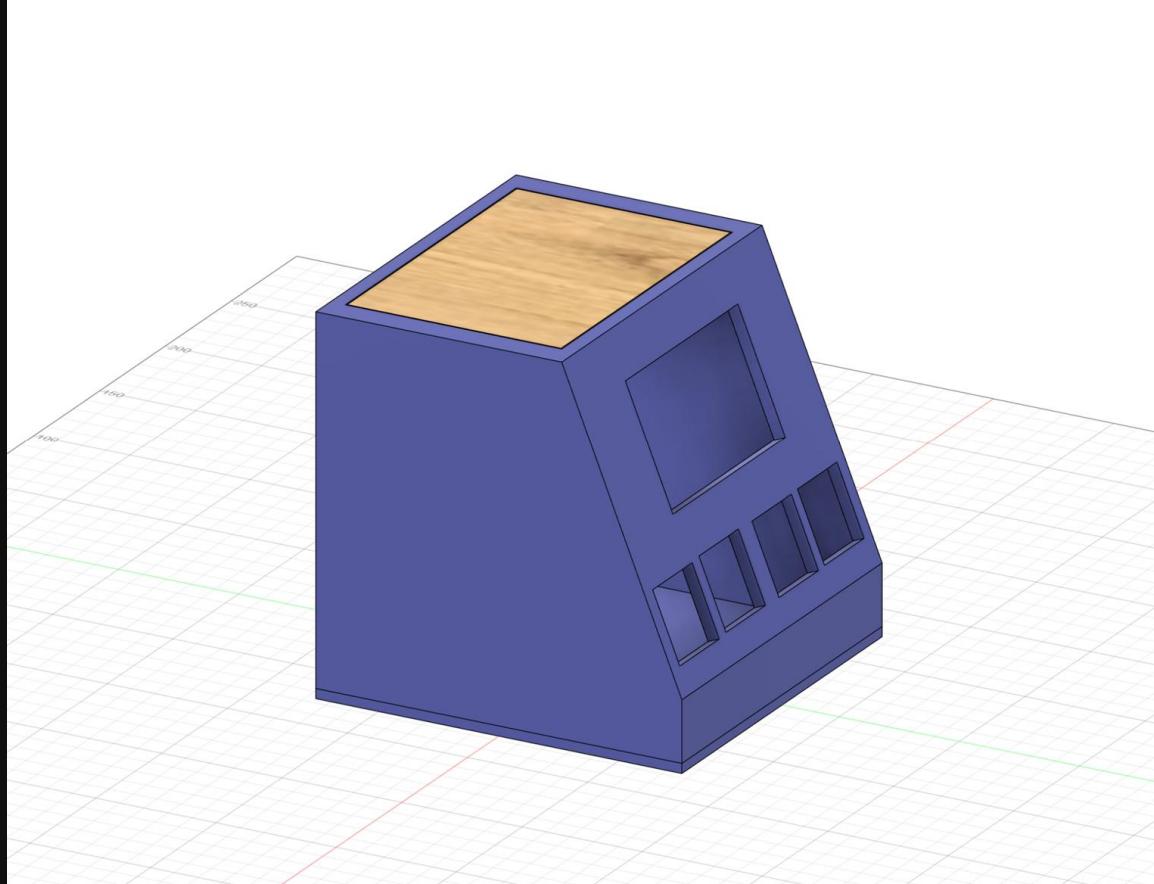


Inspiration

Inspiration

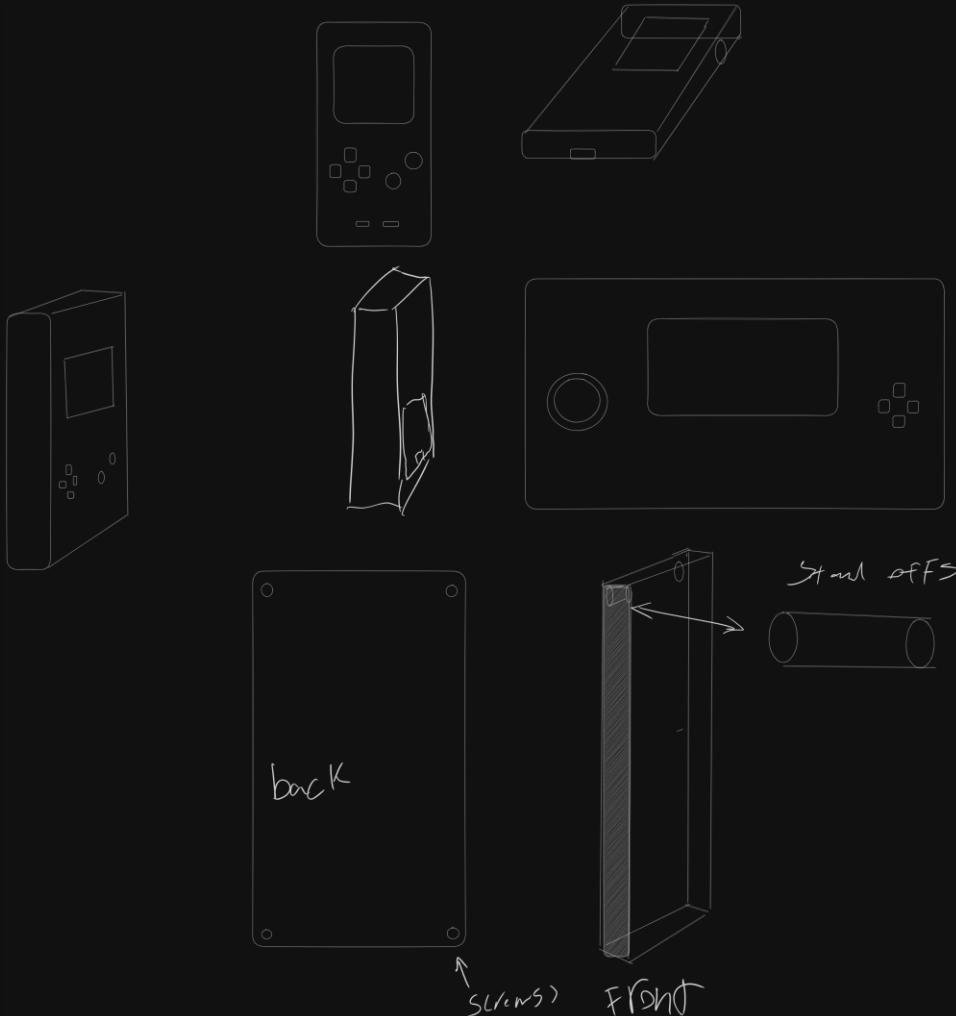


Inspiration



Design

Design



Parts



Display



ESP32



Power Switch



Volume Wheel



D-Pad



A & B Buttons



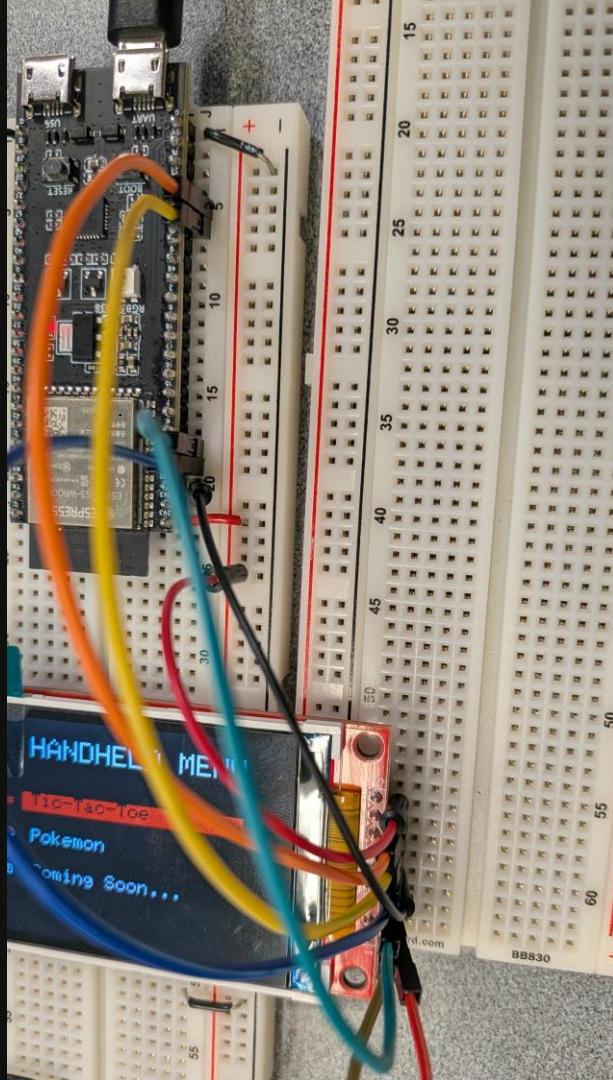
Home & Select
Buttons



Buzzer Speaker

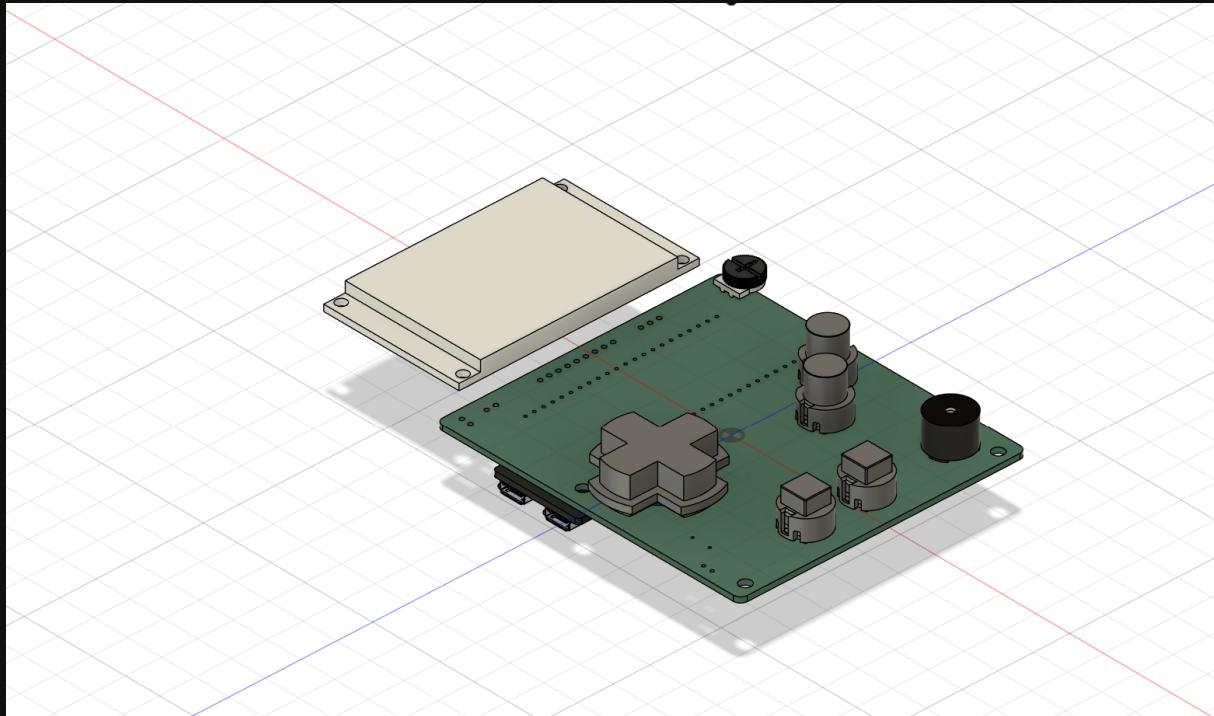
Prototype

Prototype

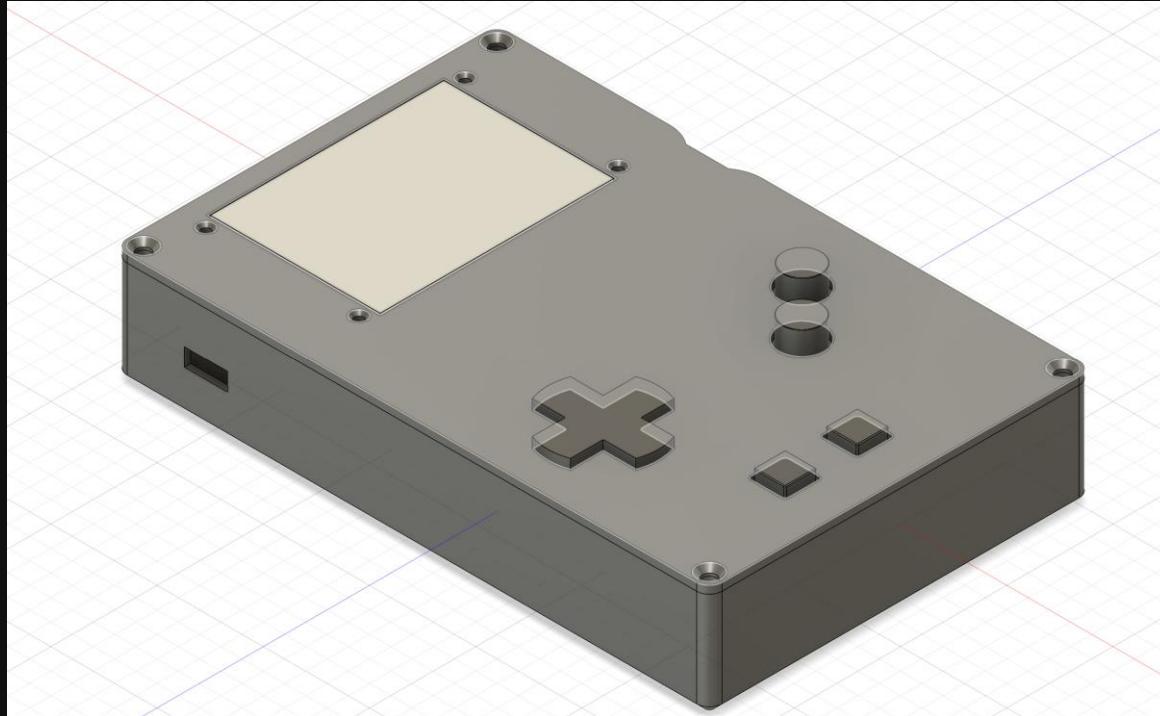


Fusion360

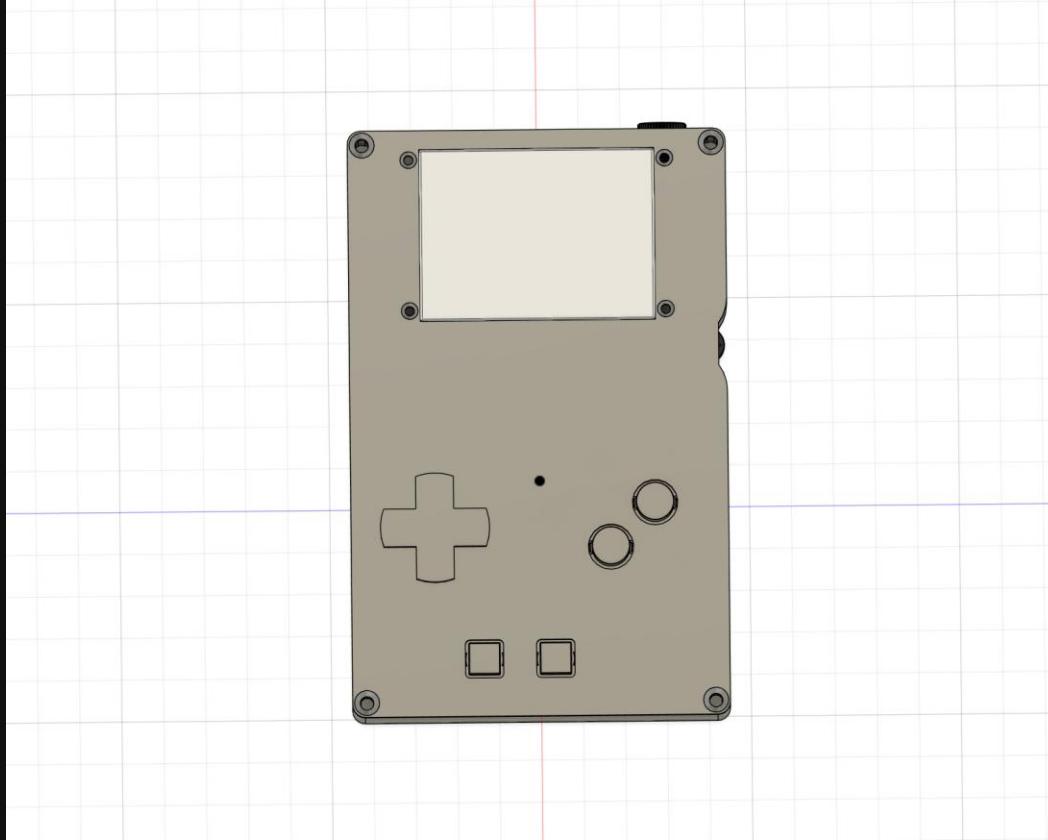
Fusion360



Fusion360

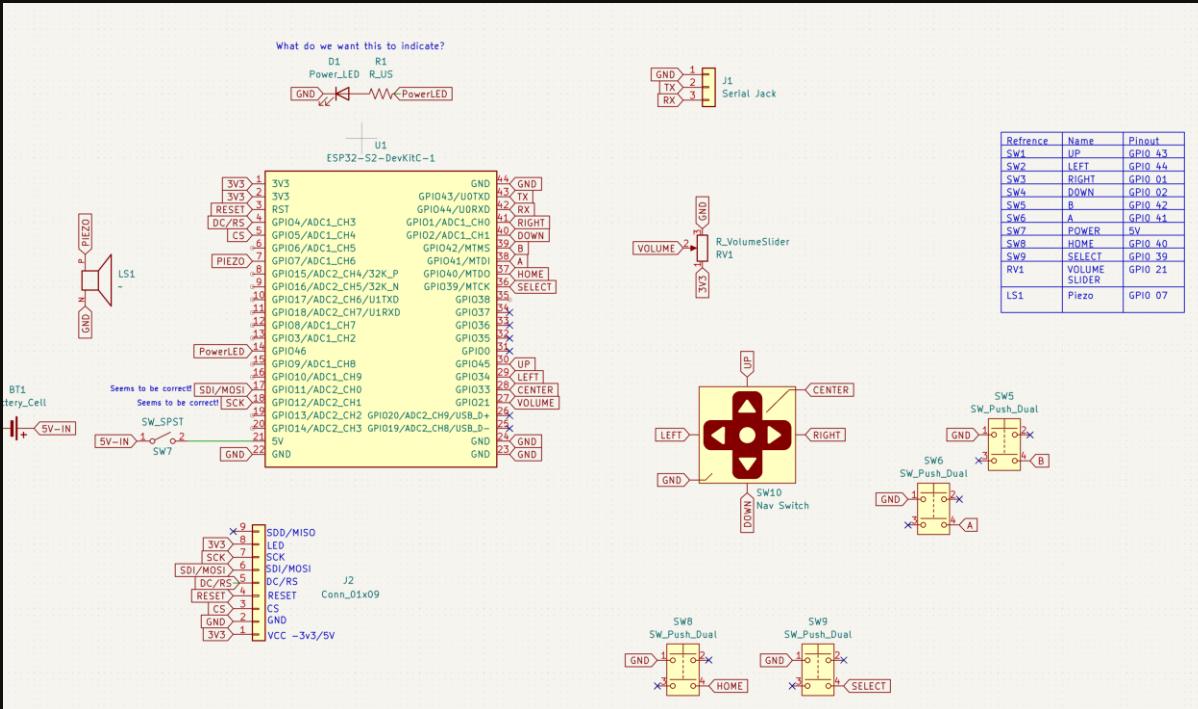


Fusion360

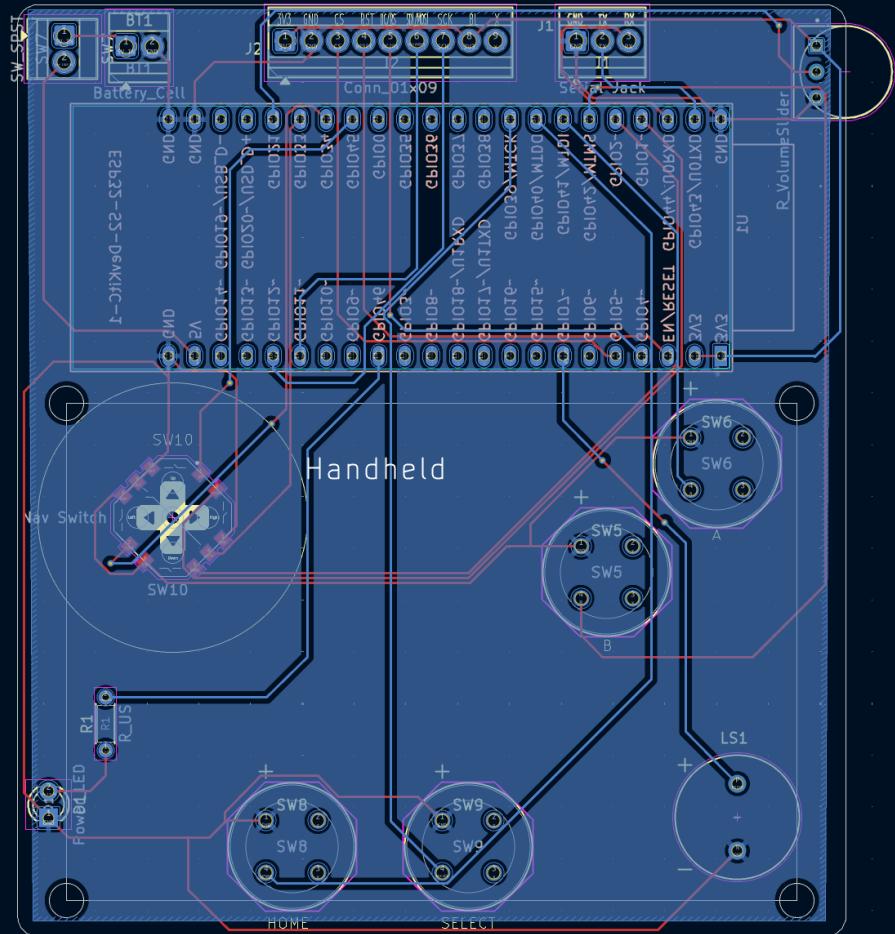


The PCB

The PCB



The PCB



Code

Code

It was a lot

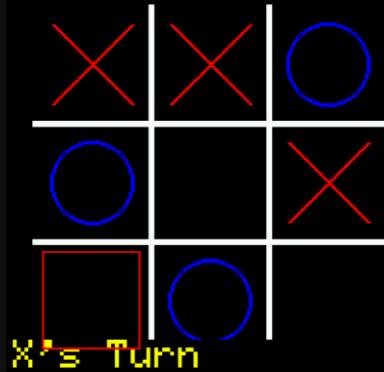
It was a lot



Like 3000+
lines a lot

Games

Tic-Tac-Toe Handheld



Tic-Tac-Toe

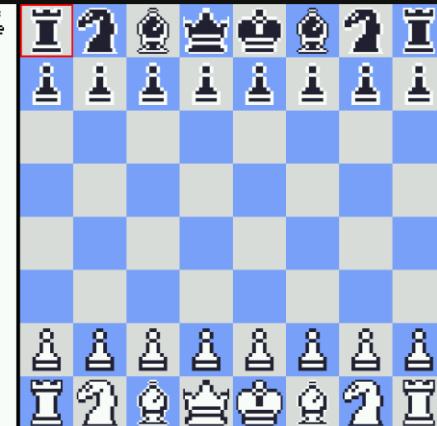
- Pass and play
- It's Tic-Tac-Toe ... so yeah



Pokémon Battler

- Singleplayer
- 9 different monsters with unique ability's

Turn:
White

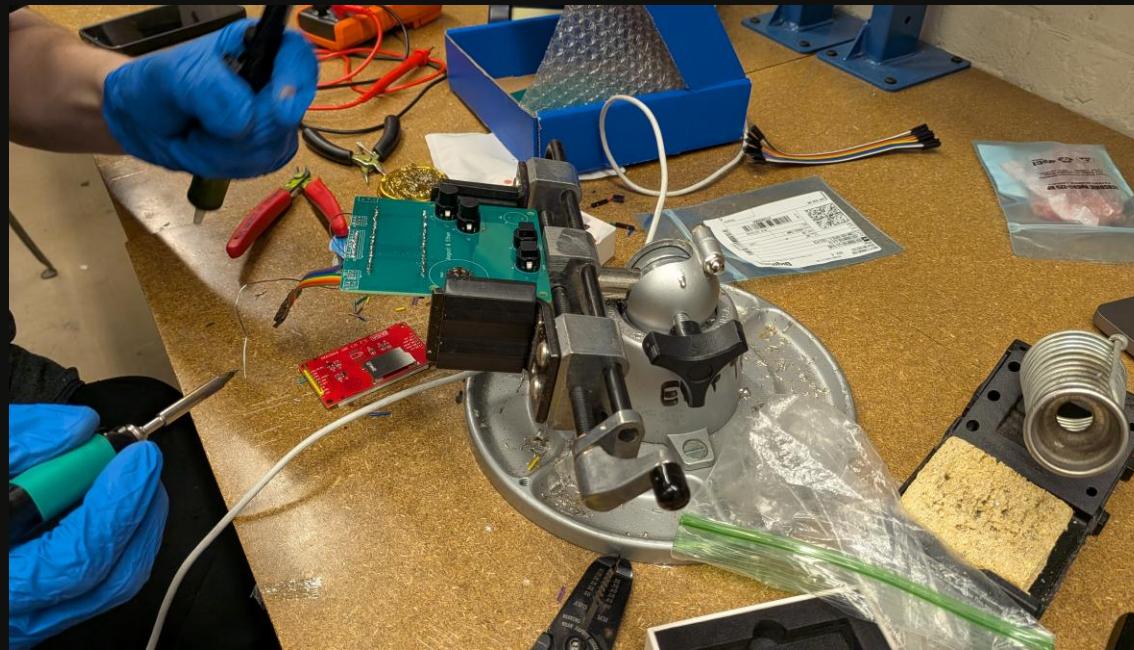


Chess

- Pass and Play
- Linked Multiplayer

Putting it all together

Putting it all
together



The Final Product

The Final
Product



Thank you!

