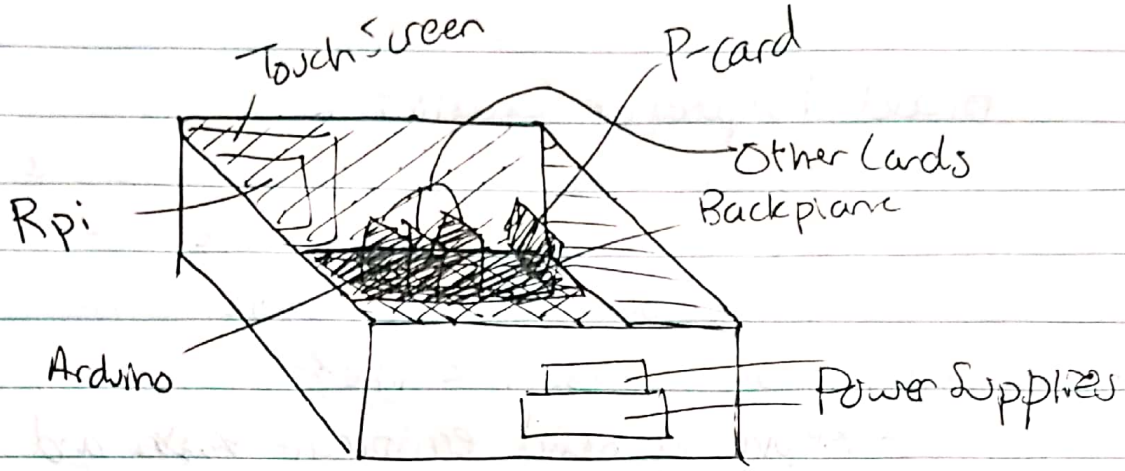
What needs to be done? (No Logistics)



- P card is not yet finished but almost
- Backplane is almost done with layout but still needs to be routed
- Microcontroller Programming — My goal for the summer
- Everything has to be put together (soldering)
- Testing
- Card Design
- Card Build

Rpi move to front

To Do

Backplane

- Electrical Design (~)
  - Routing
  - Verify Layout/Design
    - Layer Setup
    - Verify Orientation
- Manufacter
  - Order Parts and PCB
  - Build / Solder
  - Test

back panel?

Do we need to design the back panel that connects the input to the backplane?

P-Card

- Electrical Design (~)
  - verify orientation
  - route
    - move fat traces to top and signal1
    - route ~~ground~~ grand traces on all layers
    - route small traces on Bottom, S1, S2
  - Verify Traces
- Manufacture
  - Verify BOM
  - Order Parts and PCB
  - Build / Solder
  - Test

- Order Case
- Put Case Together
  - Touch Screen
  - Power Supplies

Microcontrollers

- Program Raspberry Pi
- Program Arduino
- Research/Test Communication Protocols
- Research/Test GUI Library/Engine

Broad Purposes or Goals?
- Replace existing ZeusZ thermal control equipment with something more robust and easier to support into the future

What should success look like?
- Replacing said equipment and successfully using ZEUSZ

What broad task can get us to success
- Chassis, Backplane, Modular Cards
  - motherboard, Microcontrollers
    - p-card, Bridges, PID controller
  - power supplies, case, panels, touch screen, switches/ports

Who needs to be involved?
- Carl, Stephen, Me until the implimentation phase

What do I need to learn?
- Comm. Protocols, Prefered GUI Engine, Power Tests, Comm Tests

Limits?
- the sooner the better in terms of money and for the sake of ZEUSZ. Existing does still work, for now, though.