

Figure 30: Basic system diagram for developing and testing my neural resonance metric. The system is comprised of a participant and their EEG data, Lab Streaming Layer (LSL), NeuroPype (signal processing software), a control script, and audiovisual stimuli.

- A BACKING BOARD
- B LED STRIPS (X 10)
- C FRAME
- D DIFFUSION MATERIAL

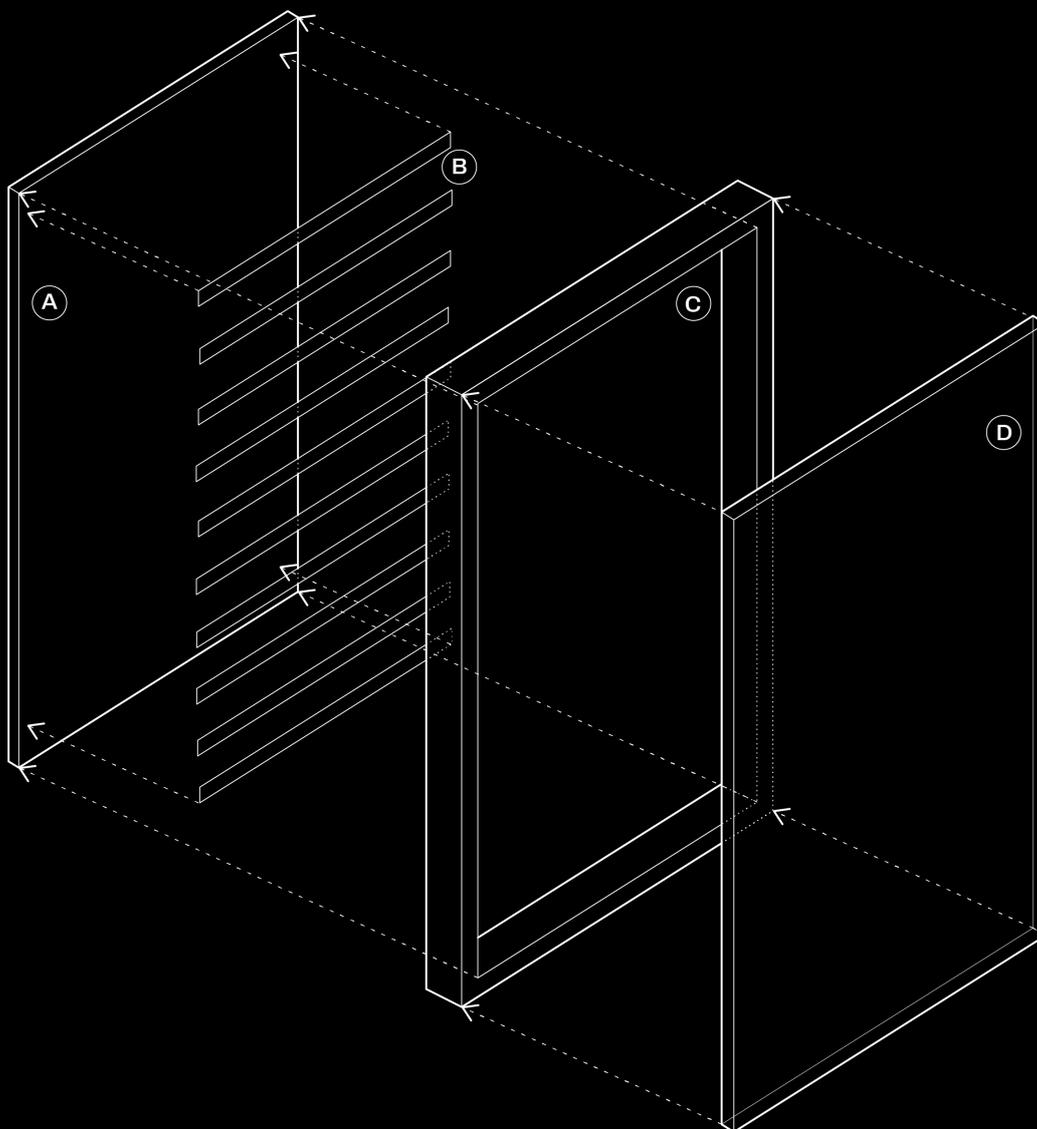
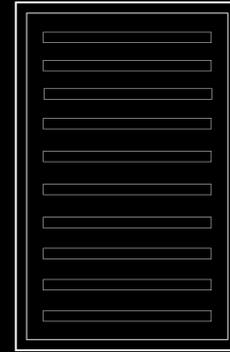


Figure 87: Schematic of the final physical prototype. The frame holds a matrix of addressable LEDs, diffused by acrylic, that together create an atmospheric light source.

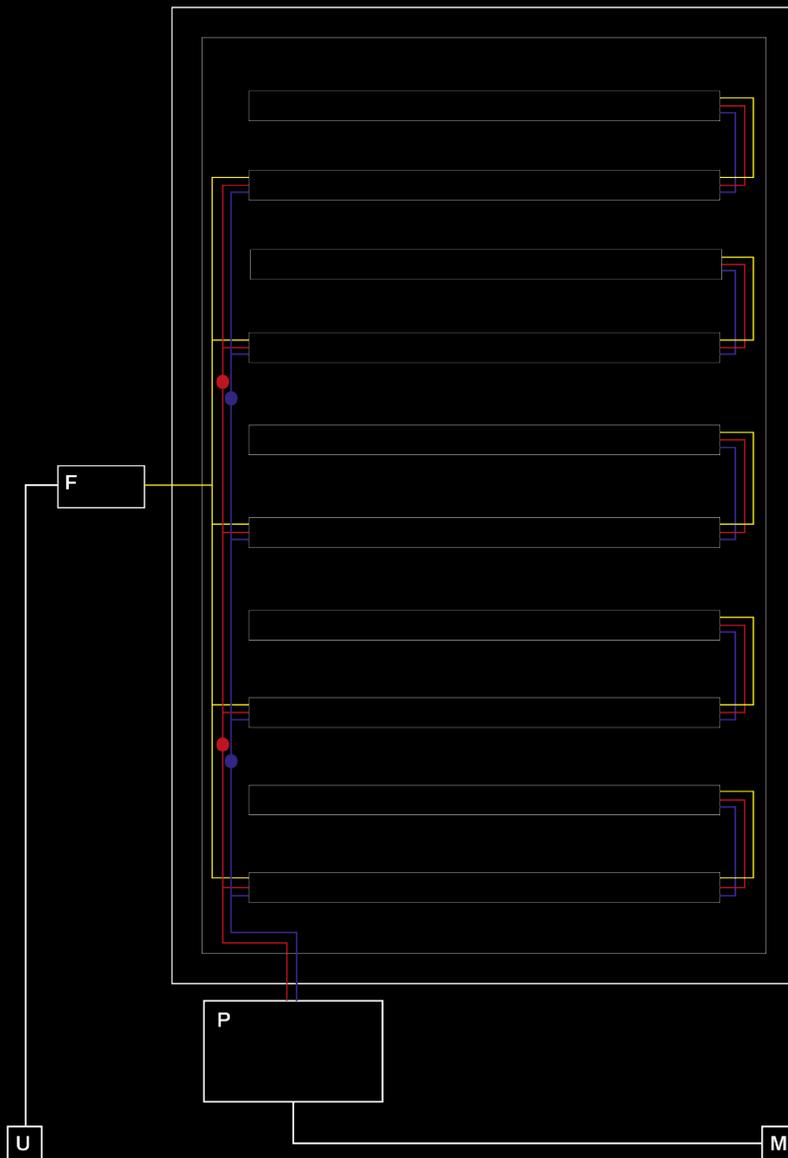


Figure 88: Wiring diagram of the final prototype. Data from a computer via USB is sent to a FadeCandy board, which distributes this to the LEDs. Power and ground are supplied by a 5V power supply.