Duet

User 1 Controls the speaker that's closest to user 2, and vice-versa for user 2.

User 2   Device thing   User 1

Speaker 1   Speaker 2

Controller?
With pots and touch sensors _ this will drive the musical experience
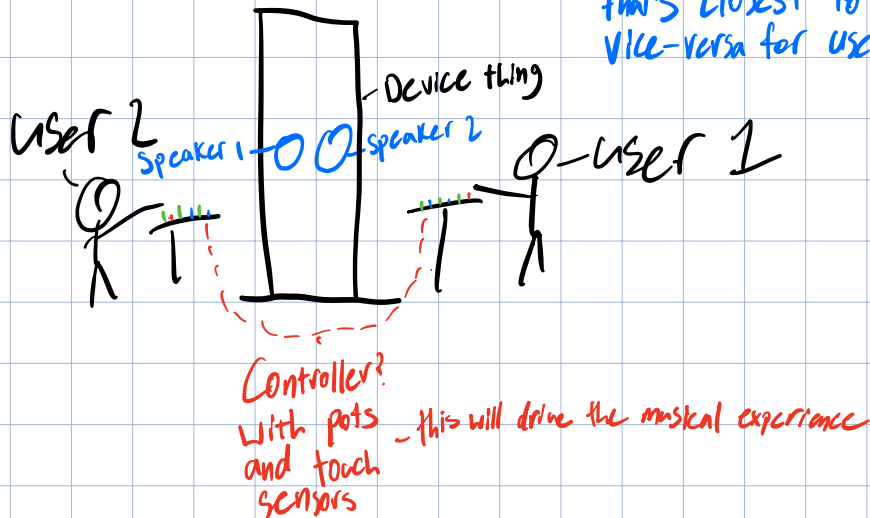
A two person musical device to explore what can be accomplished through collaboration, at least within music, but the idea is for the user to extrapolate the experience into the greater outside world at large.

Controller:

Potentiometers

touch sensors
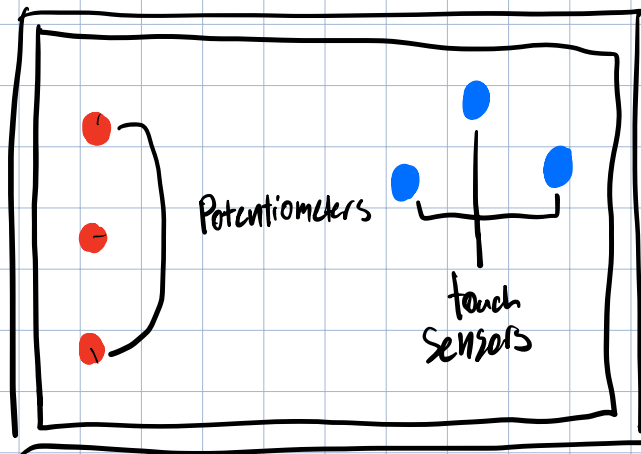
The Music Within

Driven by ESP32 or Raspberry Pi (ideally Pi)

- Grab a sample of ambient room sound
  - Use that to determine the key of experience
  - An ambient loop starts playing
- Heart beat sensor attached to user
  - Will emphasize the volume of the loop according to the EKG reading
- Force-sensitive resistor:
  - Makes the heartbeat pulse effect stronger the harder you press on it
- X/Y touchpad

Reverb Amount

High Cut EQ
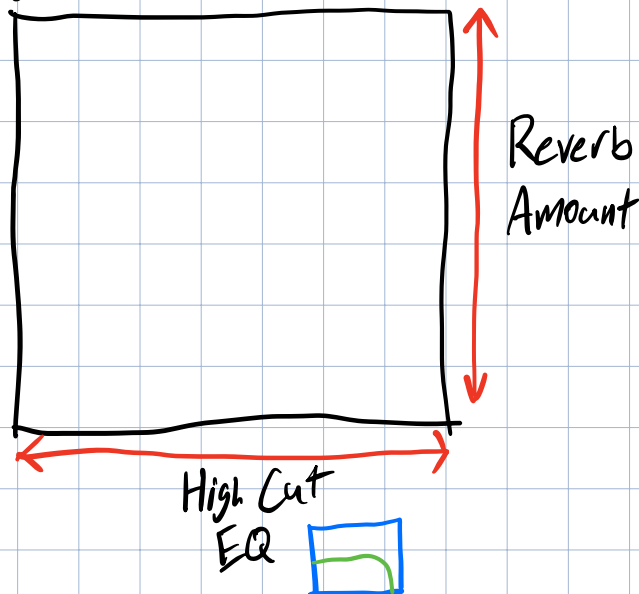
(Maybe) Have a screen or LED matrix to visualize the sound. Make it more intense the more reverb is playing?

ECG Sensor

Force Resistor

ESP32

Speakers L/R
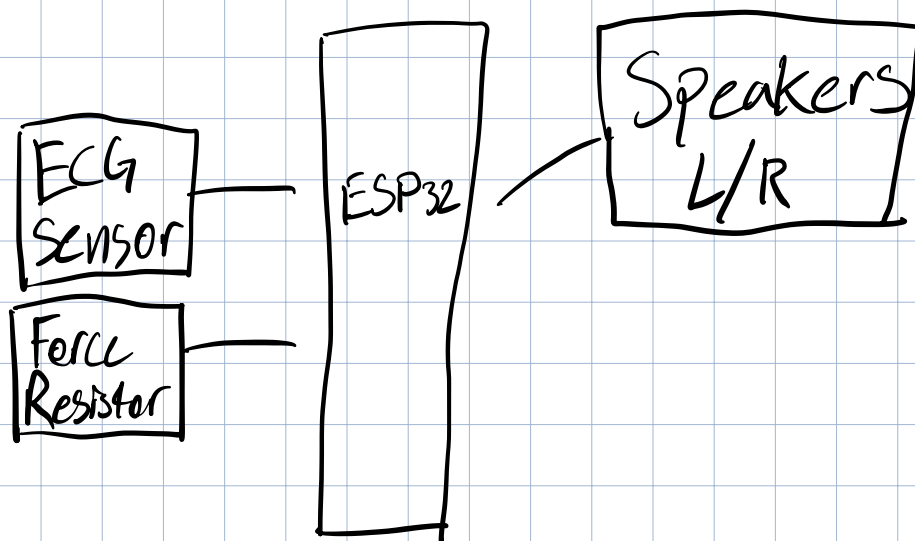
AD8232
EKG

Touchpad (Maybe)

LEDs (Maybe)