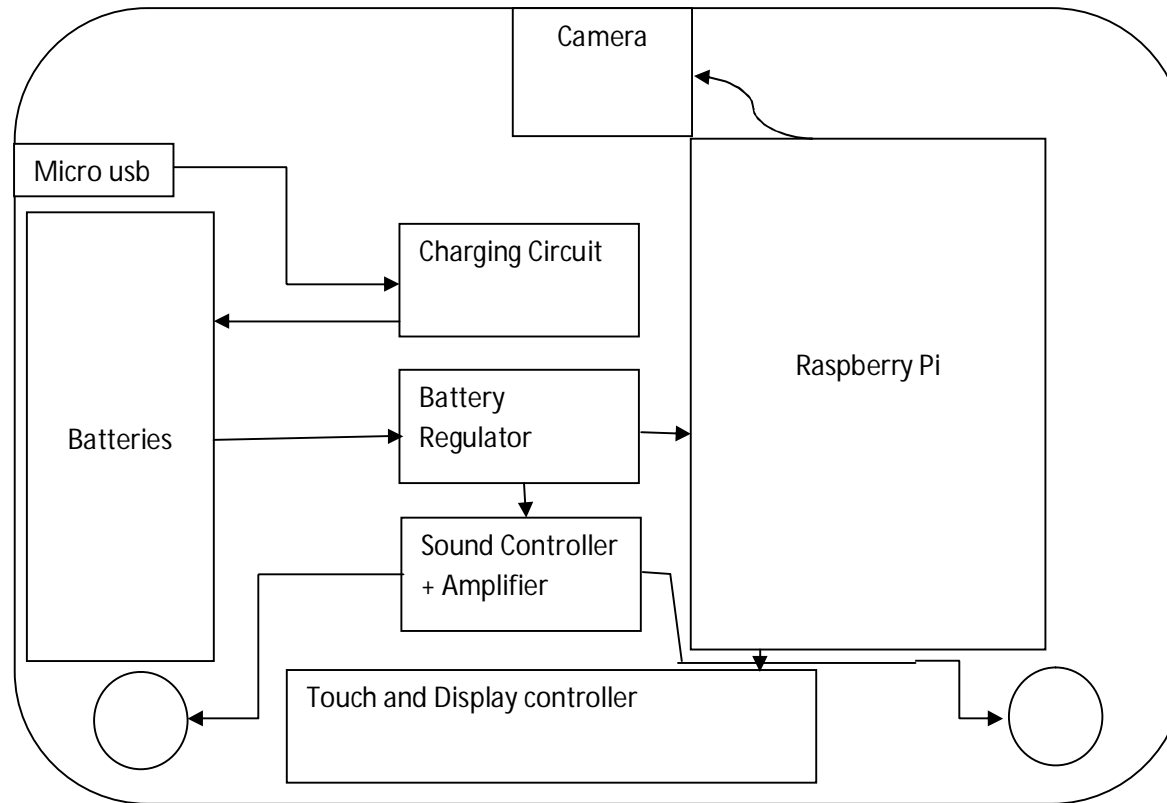PRIVATE

Project Pepper Tab

Original Designs
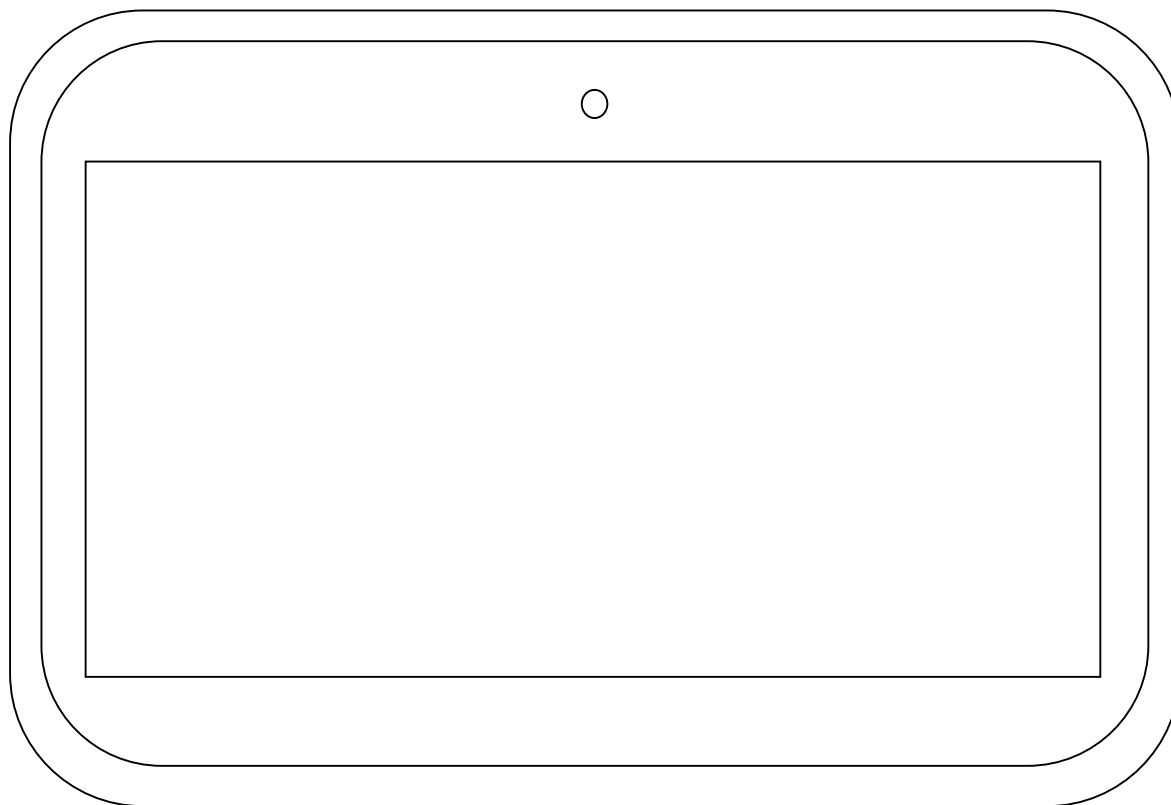

By Vithurshan Selvarajah

Interior Layout
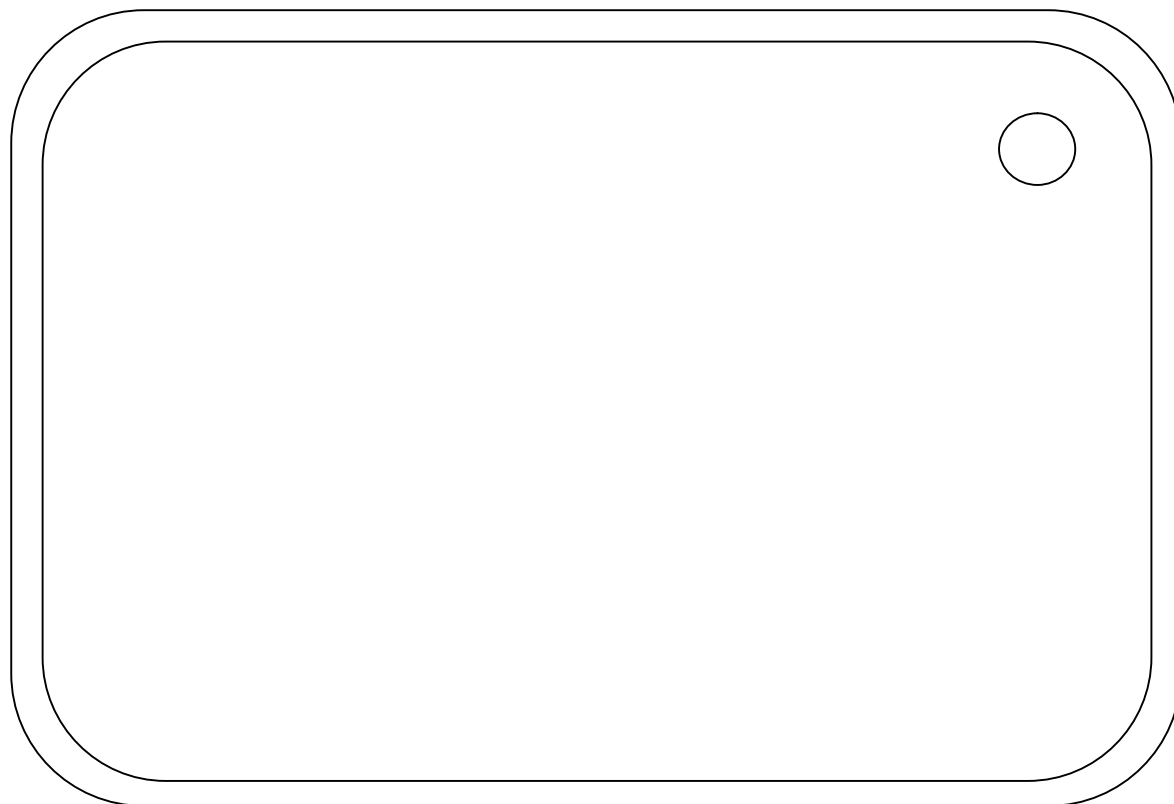
Camera

Micro usb

Charging Circuit

Batteries

Battery Regulator

Raspberry Pi

Sound Controller + Amplifier

Touch and Display controller

Available I/O

Front

Back

Circuit Layout

Input (Charger)

Power Supply

Raspberry Pi

Amplifier (no longer needed)

Power for screen

Screen → 7inch hdmi lcd → Runs off 5v

→ ~~Original screen~~

6.2inch replacement -too expensive → Runs off 9v → Get volts regulator

Can't find driver board for original screen

Buttons → Original buttons → Teensy 3.1 → 24 buttons total

→ SNES controller to gpio + 2x thumb stick to analog-digital converter

Tact switches for home, tv and pwr → 27 buttons total

22 buttons total

Speakers → amplifier → Original speakers → Add on: physical volume control

→ Small pc speaker → New speakers

Battery → Charge circuit + battery from adafruit → Resolder battery light indicator + add power switch

Housing → I/O panel → Mount ethernet + usb faceing out

→ Front face camera: fill hole

Hdmi out → Passive switch + front i/o connector

Aux out → ?

→ Screen size → Cut to fit 7inch

→ Modular → Rpi easy to retreve

Gamepad easy to take apart