

DAC Project

Lucas Elroy

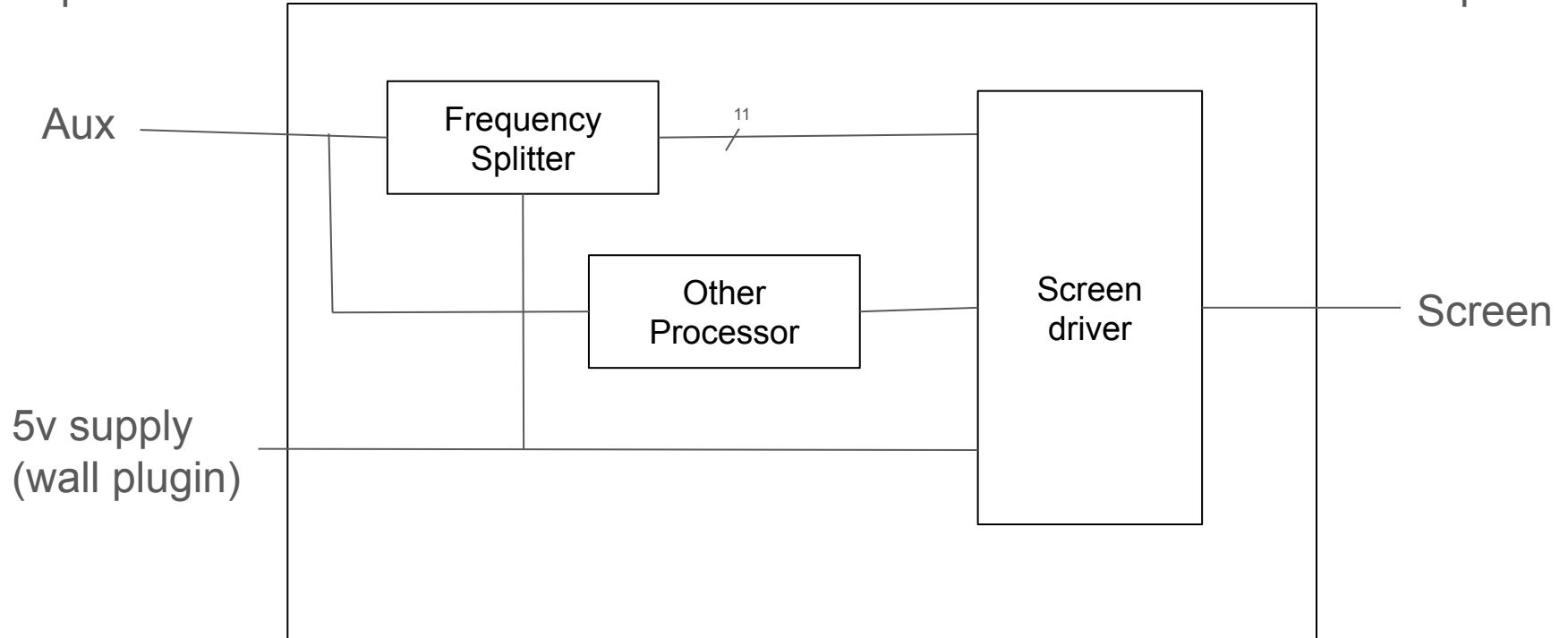
Iteration 1

- The first iteration of this project will be to get a PCB and Microcontroller to control a screen and take data from an aux
- I want to do all the

Iteration 1 Block Diagram

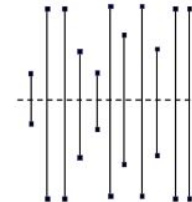
inputs:

outputs:



Frequency Splitter

- Outputs 11 different 6bit integers every x cycles or something where each int represents a frequency: first iteration of frequency splits
 - 20-60Hz
 - 60-150Hz
 - 150-250Hz
 - 250-500Hz
 - 500-1250Hz
 - 1250-2500Hz
 - 2500Hz-4000Hz
 - 4000Hz- 5000Hz
 - 5000-8000Hz
 - 8000 to 15000Hz
 - 15000 to 25000Hz
- Each split represents one bar on the final waveform : example below where each line represents the amount of a certain frequency



Other Processor

- This will take other data from the aux that is available and cool to display
 - Ex. album title, song name, elapsed time, etc

Screen Driver

- Specs will be dependent on what screen is chosen