Color Organ Danielle Robinson, Brandon Tran, Victoria Sneddon

We intend on building an LED display that will correlate with music being played.

**How it will work**:

Using a Graphic Equalizer Display Filter chip allows us to split input audio into seven bands of frequencies. We will code a program to translate the seven frequencies onto the LED display. We plan on creating a number of ‘modes’ for which the display will show patterns correlating to the input audio.

**Materials**:

# MSGEQ7 chip ($5)

* 2 4x10 LED matrices ($30 ea)
* Total cost - $65

Project Calendar:

1/29: Finish Proposal

2/5: Obtain the materials and wire everything onto the breadboard and successfully connect with Arduino.

2/12: Program basic representations of the seven frequencies onto the two LED matrices.

2/26: Program further additional patterns, programming a physical button to switch different modes.

Dead Week: Have the project finished and ready to present