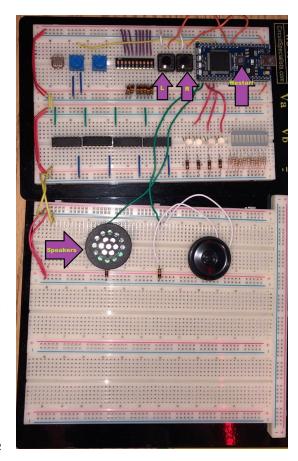
The Amusia Tester Aaron Quang

• What does it do?

 Test your ability to distinguish between certain tones. Amusia is a condition where someone is unable to distinguish between pitches and music perception - it affects about 4% of the population, which is a decent amount considering the amount of music people listen to.

• How to run the demo

- Press the restart button to begin the demo. On the computer screen, you will be given directions on what to do.
- There are 3 rounds of testing, turned into a game.
 - 1) Testing your memory of a certain frequency
 - 2) Comparing different frequencies
 - 3) A test on pitch in a different octave. This one is difficult!
- Upon getting right or wrong, you will hear some frequencies. If you win, you should hear the frequency increasing then decreasing. If you lose, you should hear a higher frequency and then a lower frequency alternating. If you can't tell, that may be a sign!
- After you pass all 3 rounds, you will be able to get your ears rewarded by a (hopefully!) familiar tune on loop.



• What I learned

- I learned about tone-deafness. I personally have played an instrument so it is easier to tell the difference between notes. While other people may have a harder time, they can pick up on it quickly. With amusia affecting about 4% of the population, how can they enjoy music? Being able to listen to music, we take it for granted.
- I had run into an issue where I had a microSD breakout board, but had no microSD. That's when I decided to challenge myself and actually read music and translate that into notes, including counting to calculate how long notes should be held, and the beats per minute the song should go at. It's much harder than just playing an MP3 off an SD card, and I think it was worth it in a general sense.