Requirements (Rough)

# Hardware Requirements

* **System Speed:** Must be fast enough to perform 2 binaural audio transforms (left and right ear) for a given audio signal at 44000Hz in real time. (i.e. audio runs smoothly with no skipping)
* **System Memory:** Must be able to contain binaural audio software and associated control software (~6 MB)
* **System Capability:** Must be able to output audio to headphones
* **Sensor Capability:** Must be able to sense objects in indoor, outdoor, well lit, and dimly lit environments.

# Usability Requirements

* **Feedback Speed:** The time from when the sensor detects something to when the user receives feedback must be no longer than 15 milliseconds. (~60Hz)