

Kelvin Dizon
Art 106
Durie

Final Project Proposal

For my prototype workout device, I was able to fulfill most of my goals—my accelerometer sensor, oled display, and neopixels are all working together. I added controls that were not part of my sketches and proposal such as: momentary button, toggle switch, and built-in battery. In addition to the hardware, I was able to play with the animation in the Arduino software.

To improve my device, I would like to attach a speaker that plays music as I use it. I also would like it to count the number of reps on the display. Lastly, I would like the vibrating motor disc to buzz once when I turn the device on/off.

A. Prototype Upgrade

Hardware:

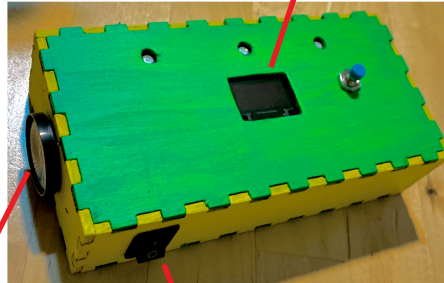
- Add a velcro that will hold my device to my workout equipment.
- Add vibrating motor disc
- Add a speaker
- Clean messy wires inside the device

Software:

- Vibrating motor disc to vibrate once as I turn the device on/off.
- Speaker to play a song as I workout
- Display the number of reps on the screen

Final Project Proposal

Will display the number of workout reps



Toggle button on/off triggers vibrating motor disc

Speaker plays a song during workout

Proto Project Proposal

