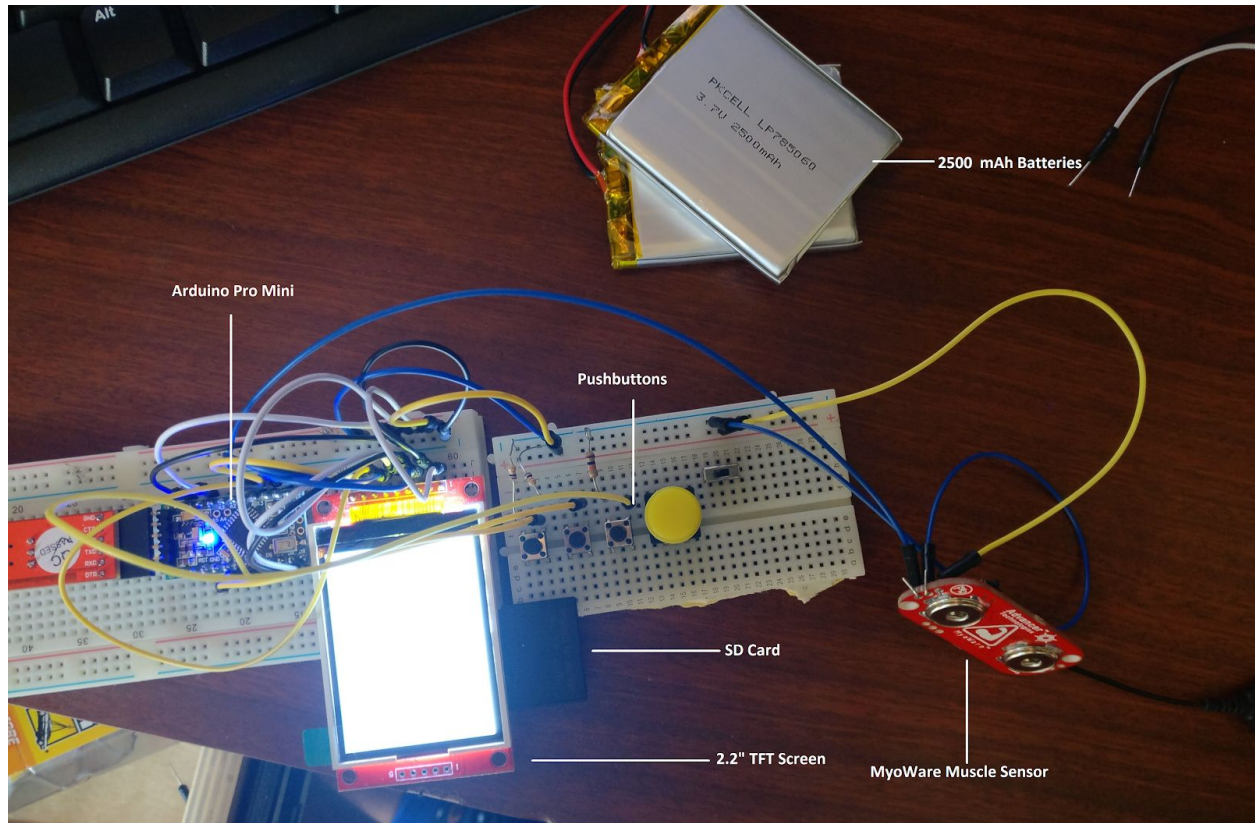



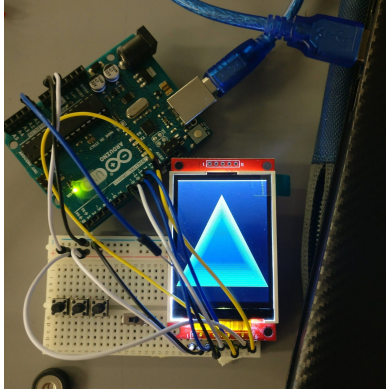
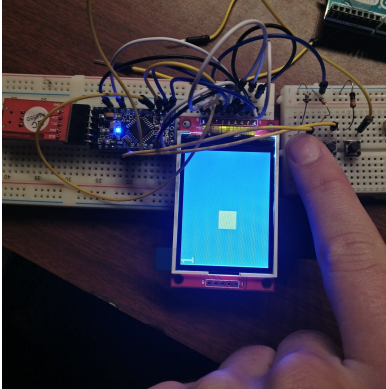
# Function Proof of Concept

## Functional Breadboard



## Screen Function

Splash Screen	Main Menu	Help Screen

		
<b>About Screen</b>	<b>Screen Test</b>	<b>Working Buttons w/Screen</b>

Overall, the process of getting my components to talk went mostly as expected. It took me a while to figure out how to configure all of the wires for the screen and what arduino library to use, but after many hours, I got it running the graphics test. I was able to use imgae2cpp to convert my designed logo to a readable format for the splash screen. I chose a blue background and mostly yellow text and graphics to create a fun and easy to read experience for the MGM. After many hours of trial and error, I was able to create the Main Menu, Help, and About screens. On the Main Menu Screen, a blinking red square allows the users to see which selection they are on. I was also able to get the buttons and muscle sensor to be able to display their values on the TFT screen.

### HelloWorld Software

I have included the software in the GitHub repository with the following libraries:

- Adafruit GFX Library
- Adafruit ILI9340 Library

In-Progress PCB Design

