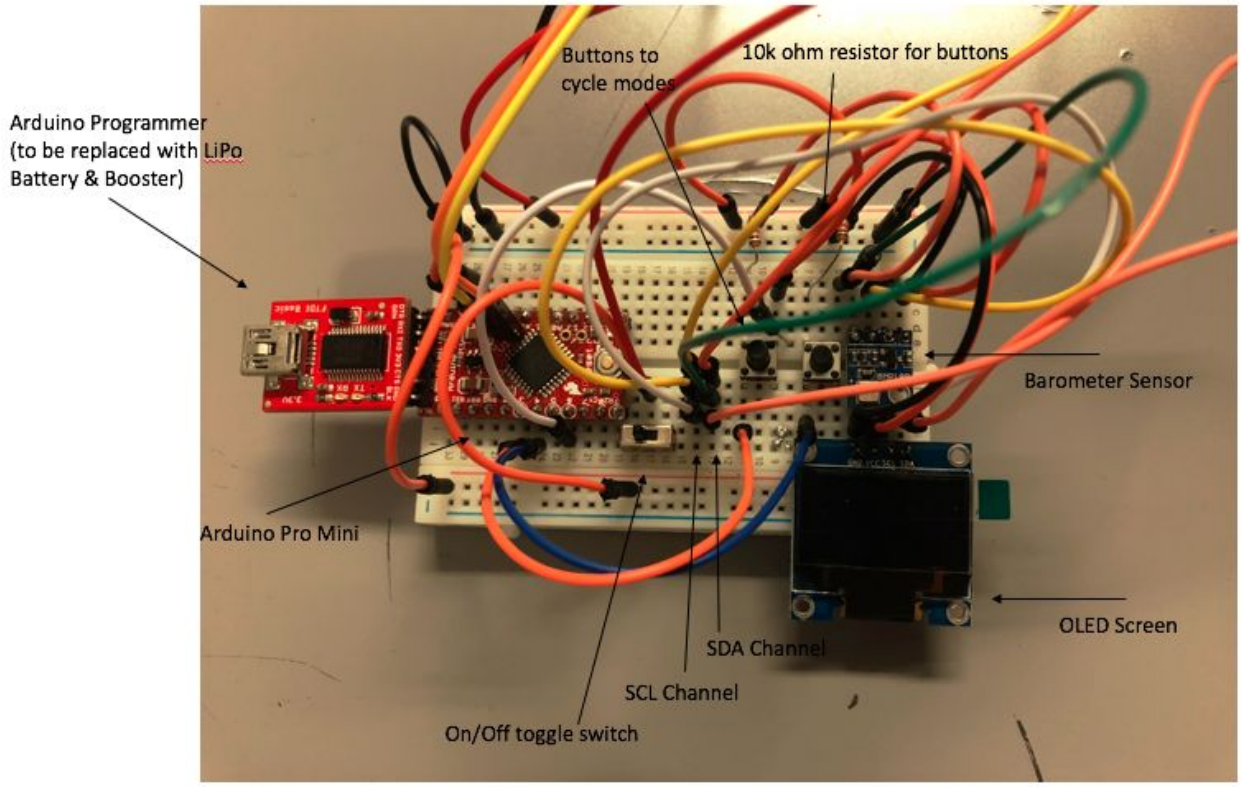
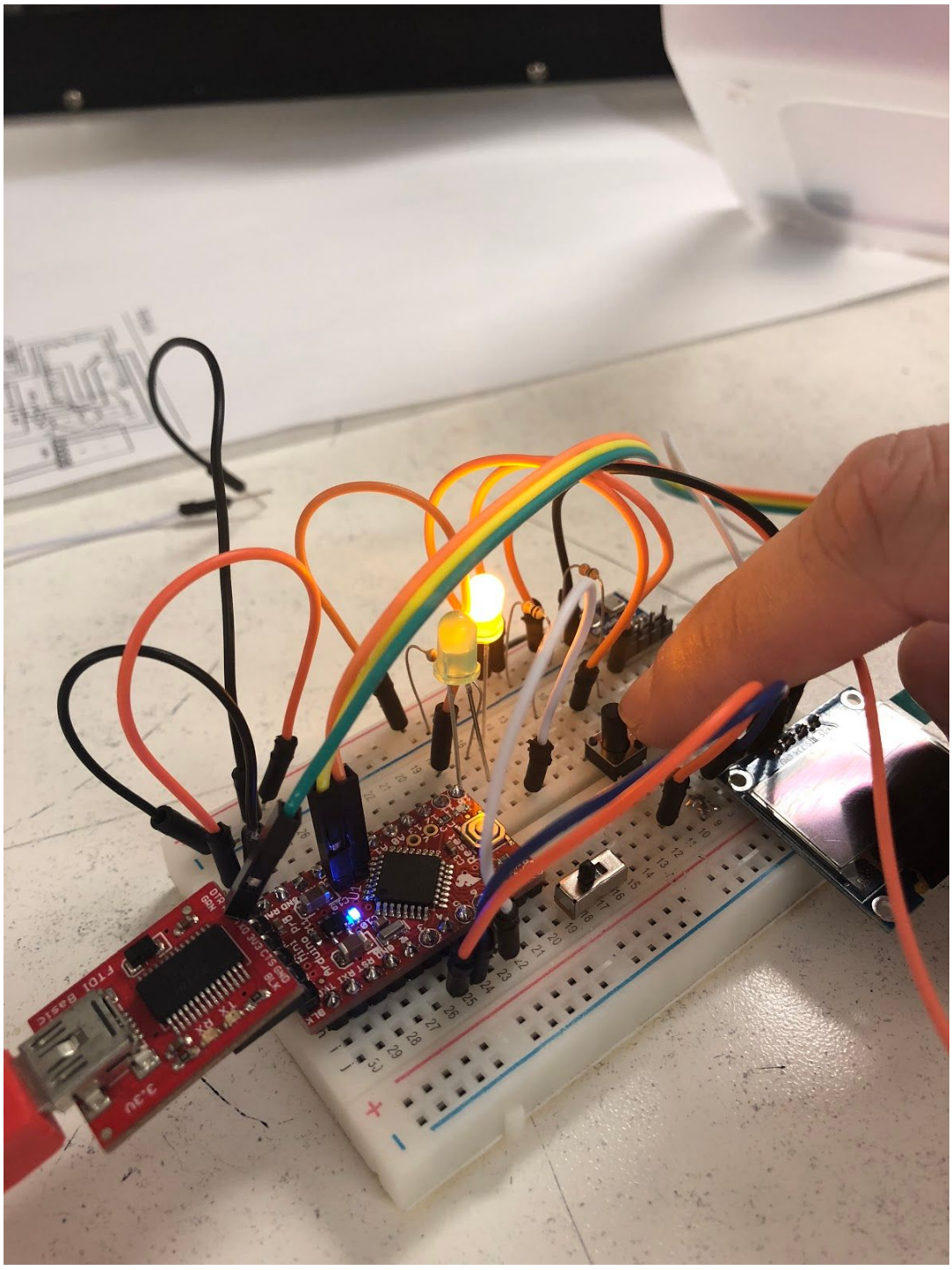
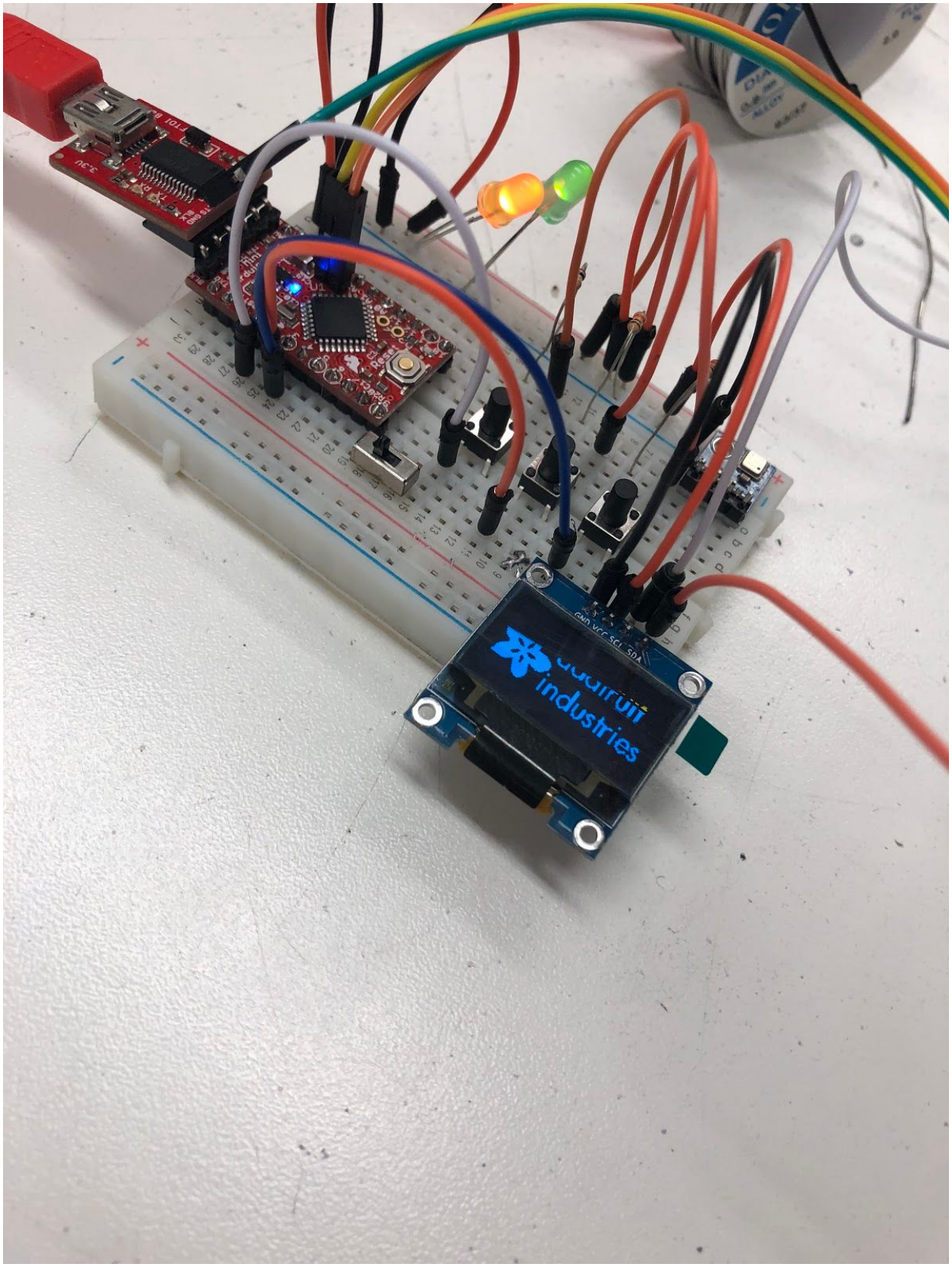
05 Function Proof

Functional Breadboard-

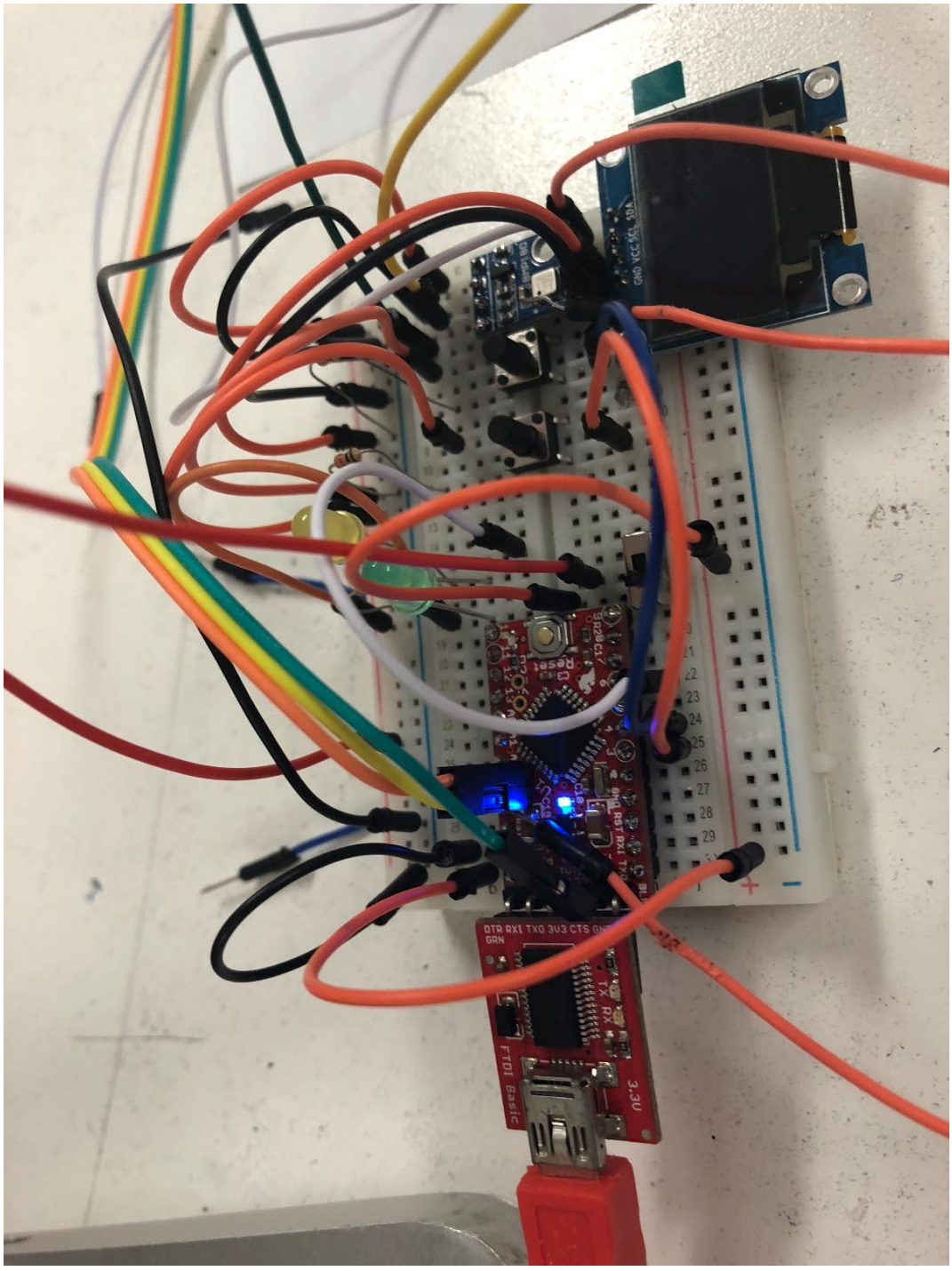




Buttons work properly. Not pictured: slide switch controlling power correctly



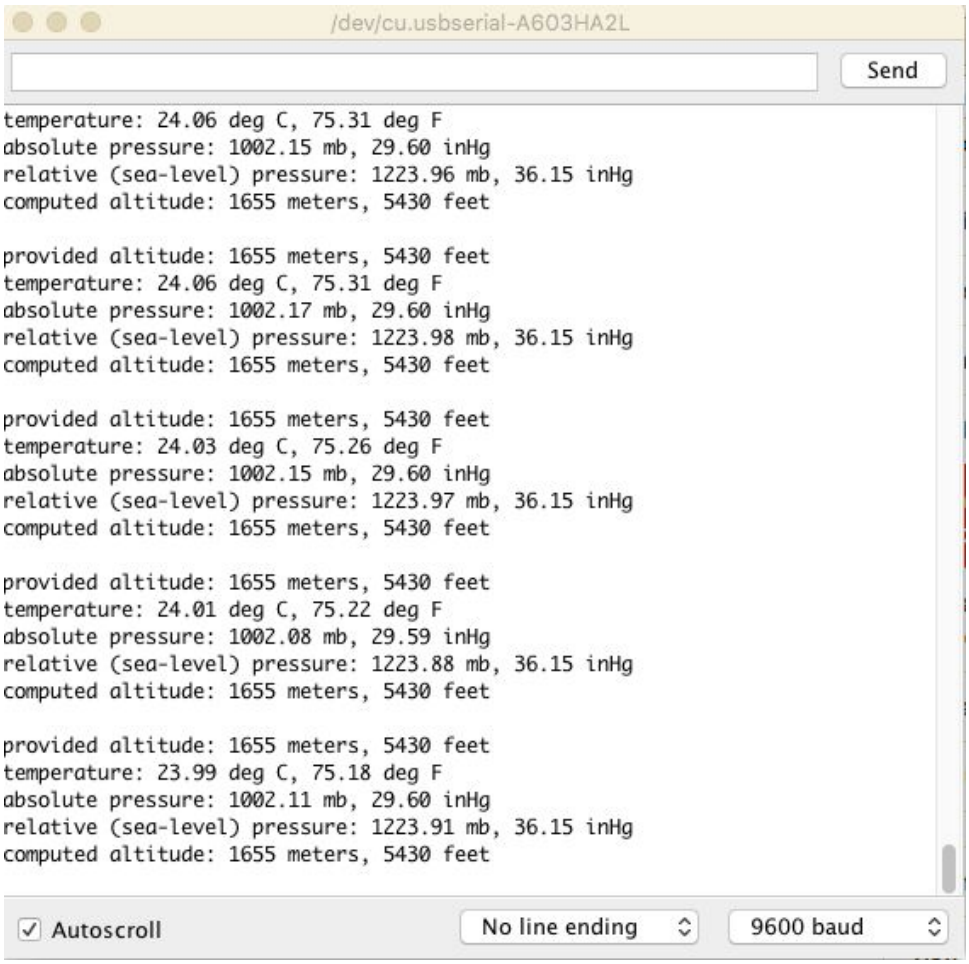
Screen loads startup menu

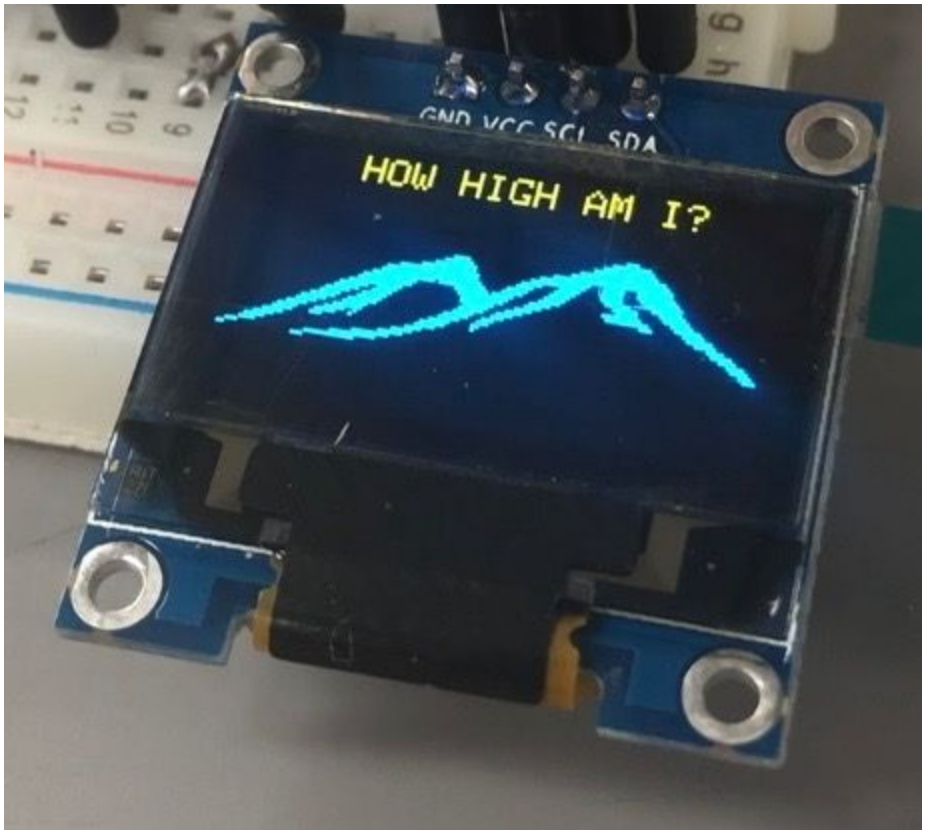


Barometer is connected to SLC & SDA, rather than the OLED in this photo

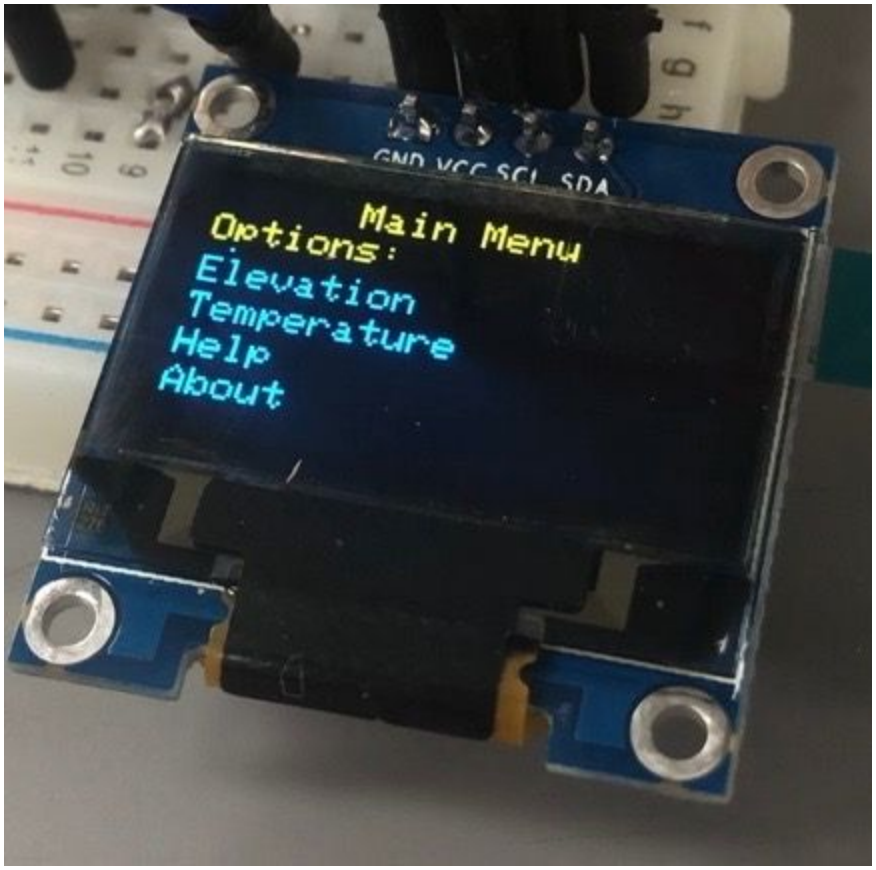
Libraries for Barometer:
#include <SFE_BMP180.h>
#include <Wire.h>

Example code for barometer:
File / Examples / Sparkfun BMP180 / SFE_BMP180_example //for BMP180

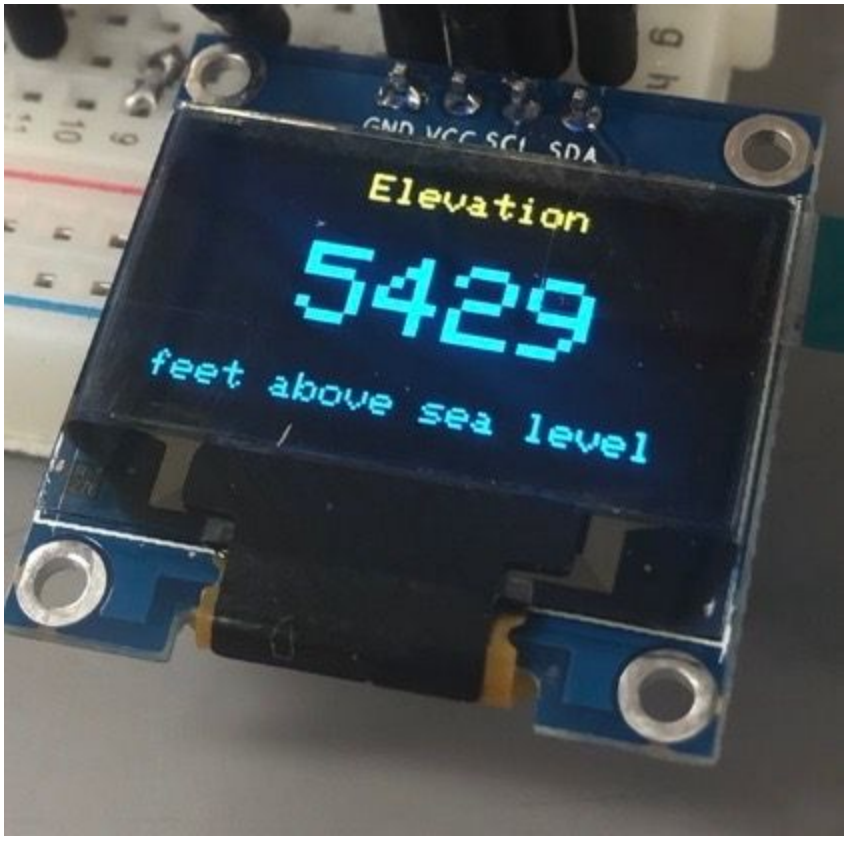




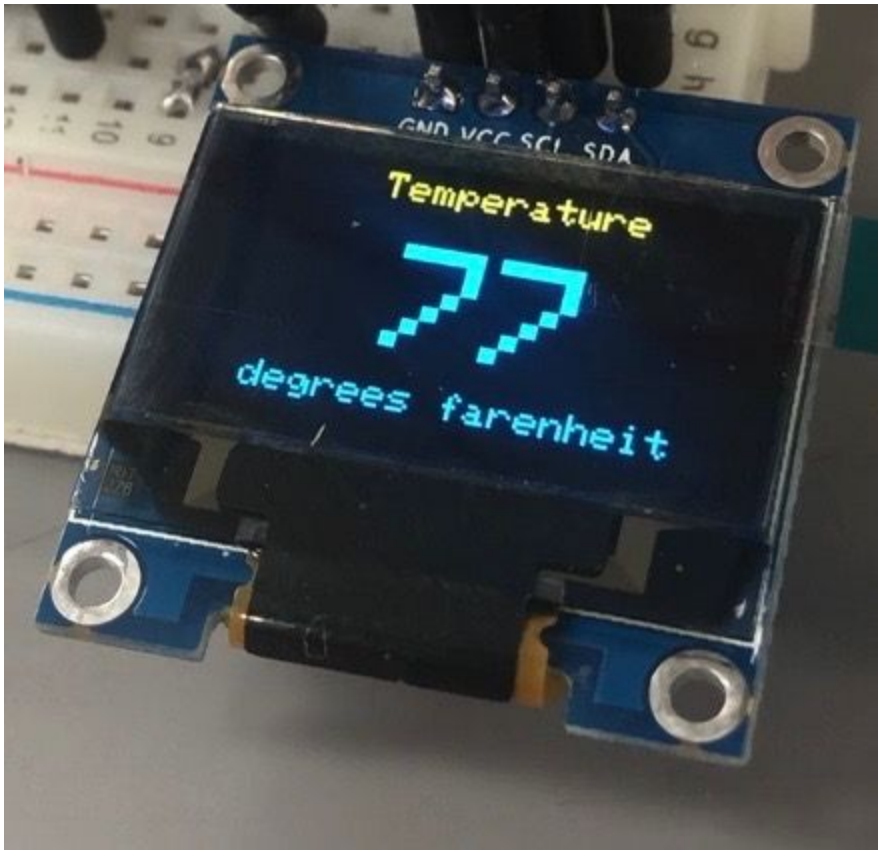
Splash Screen appears for 3 seconds upon starting program



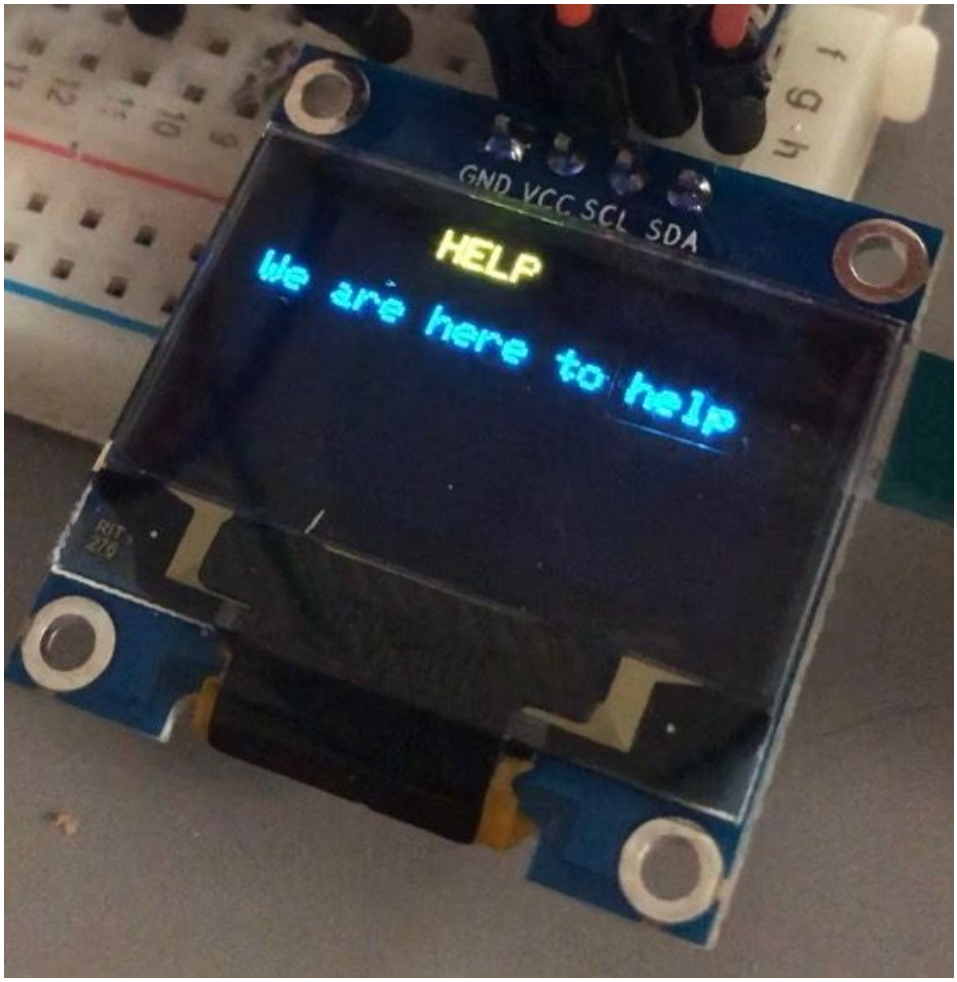
Main menu showing available options on device, “mode” button cycles through these pages



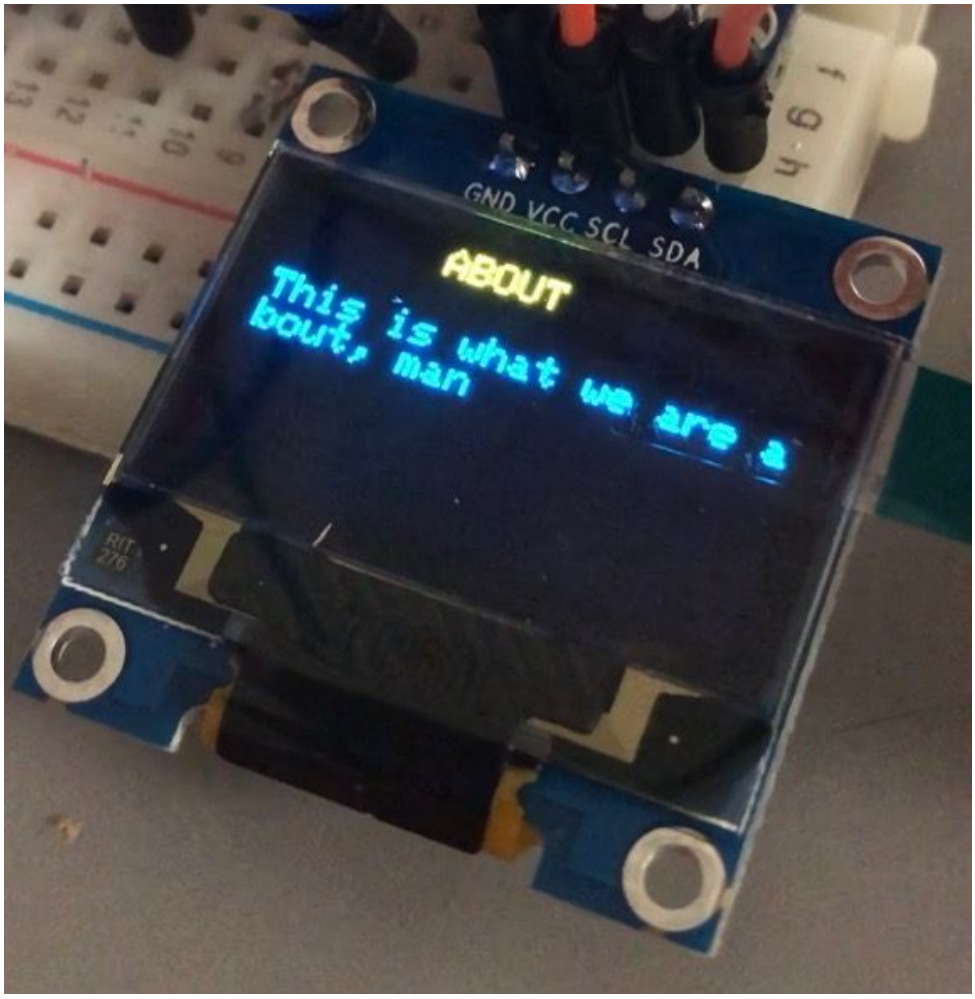
Showing standard elevation, code based in Colorado



Elevation and temperature both functioning & drawing from barometer properly



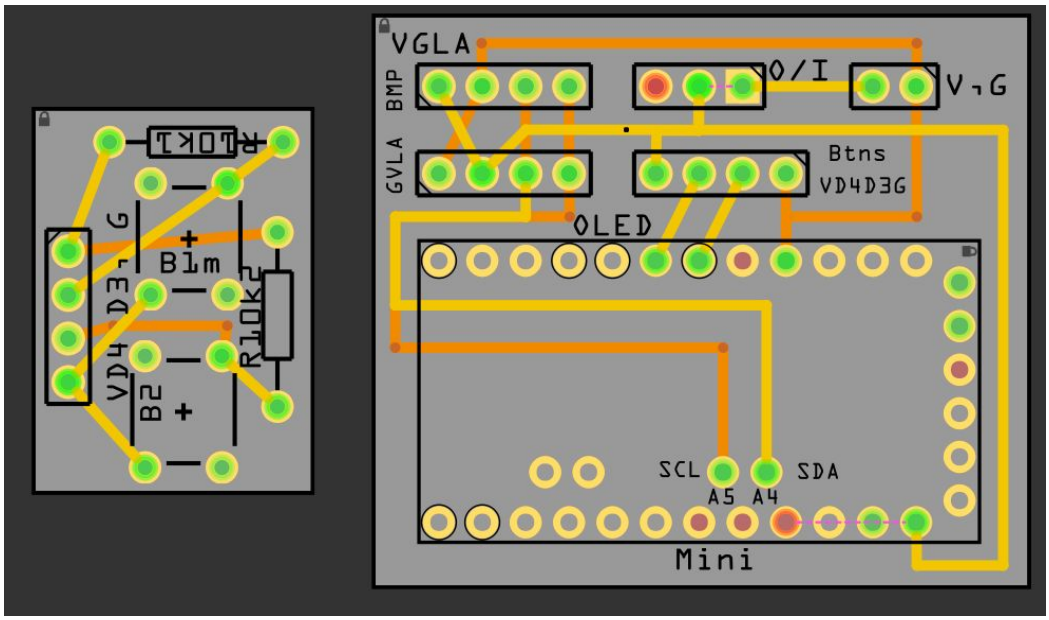
Help Screen



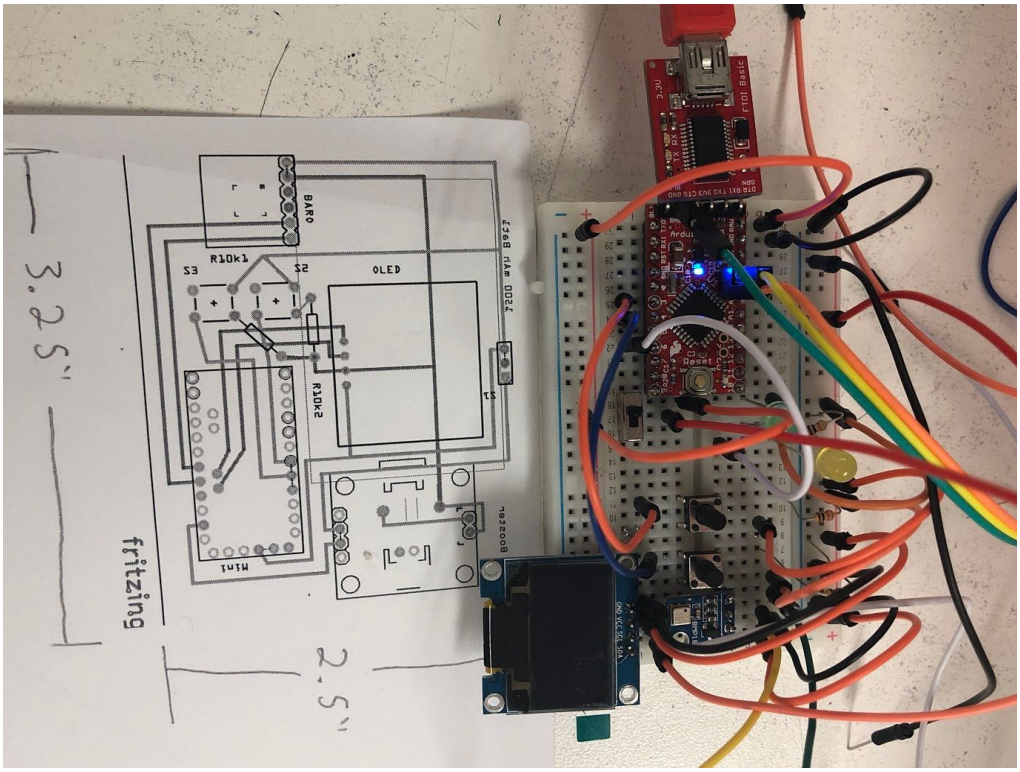
Initial About page

LED Screen: https://www.youtube.com/watch?v=wloWIyvw2w4
http://www.instructables.com/id/Monochrome-096-i2c-OLED-display-with-arduino-SSD13/
LiPo Booster: https://www.youtube.com/watch?v=aND0j2Y2IkM
Buttons: https://learn.sparkfun.com/tutorials/switch-basics
Barometer: https://learn.sparkfun.com/tutorials/bmp180-barometric-pressure-sensor-hookup-

PCB Design -



PCB Paper Test -



Wrong LiPo booster in fritzing, slightly smaller than the real one, different barometer, extra pins