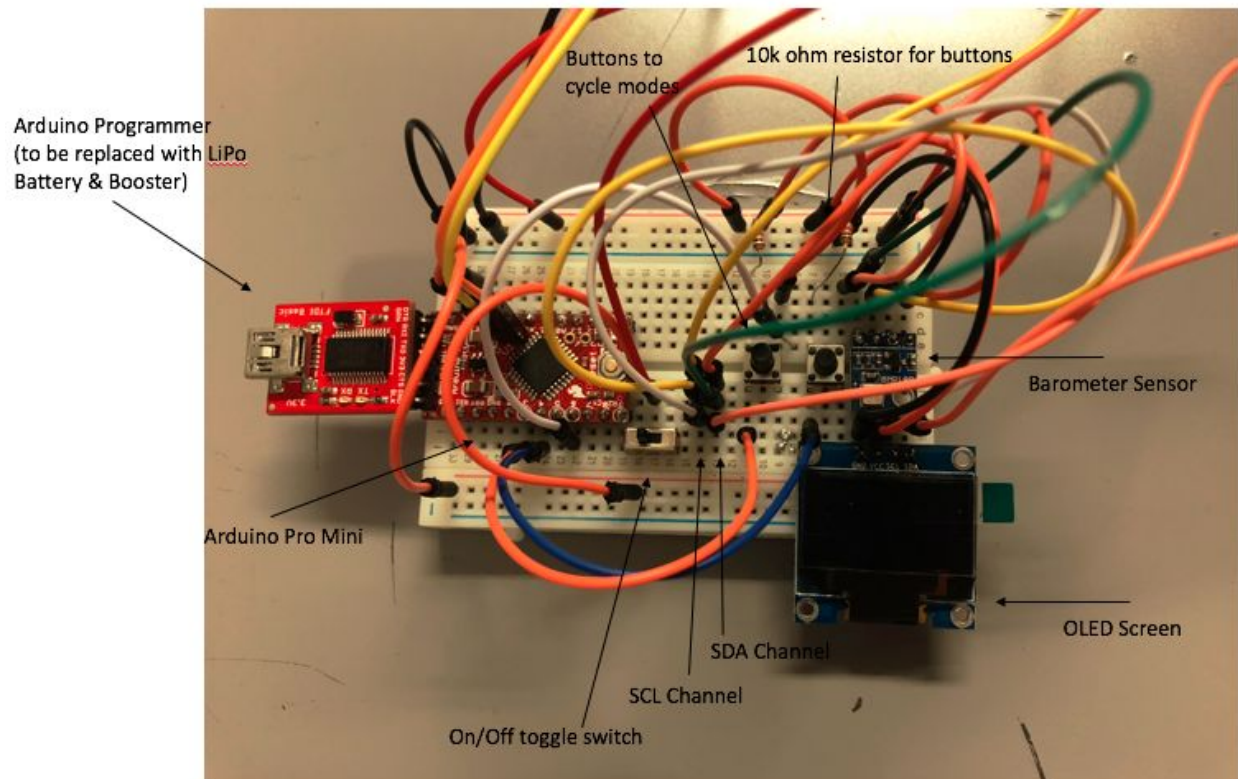
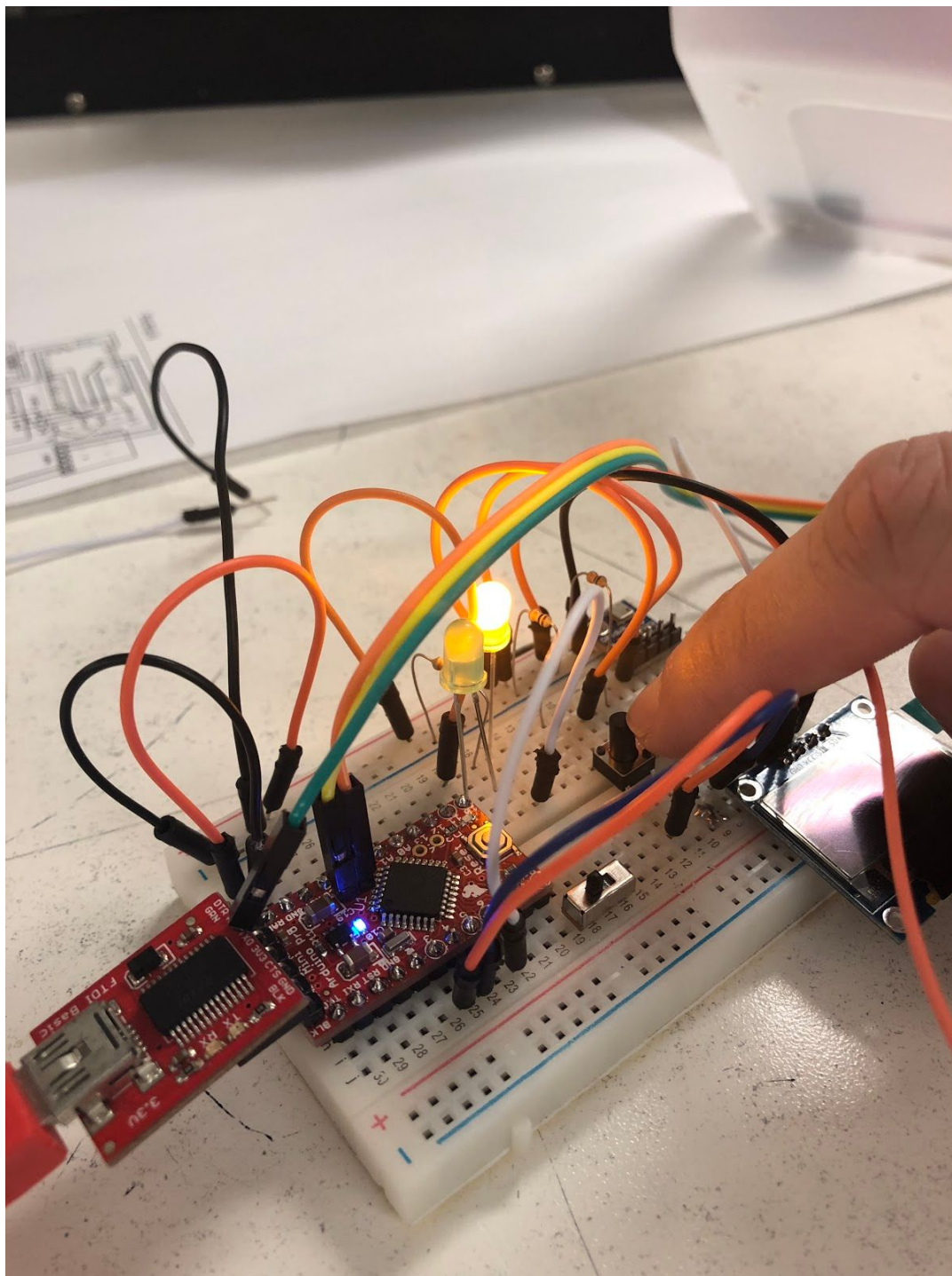


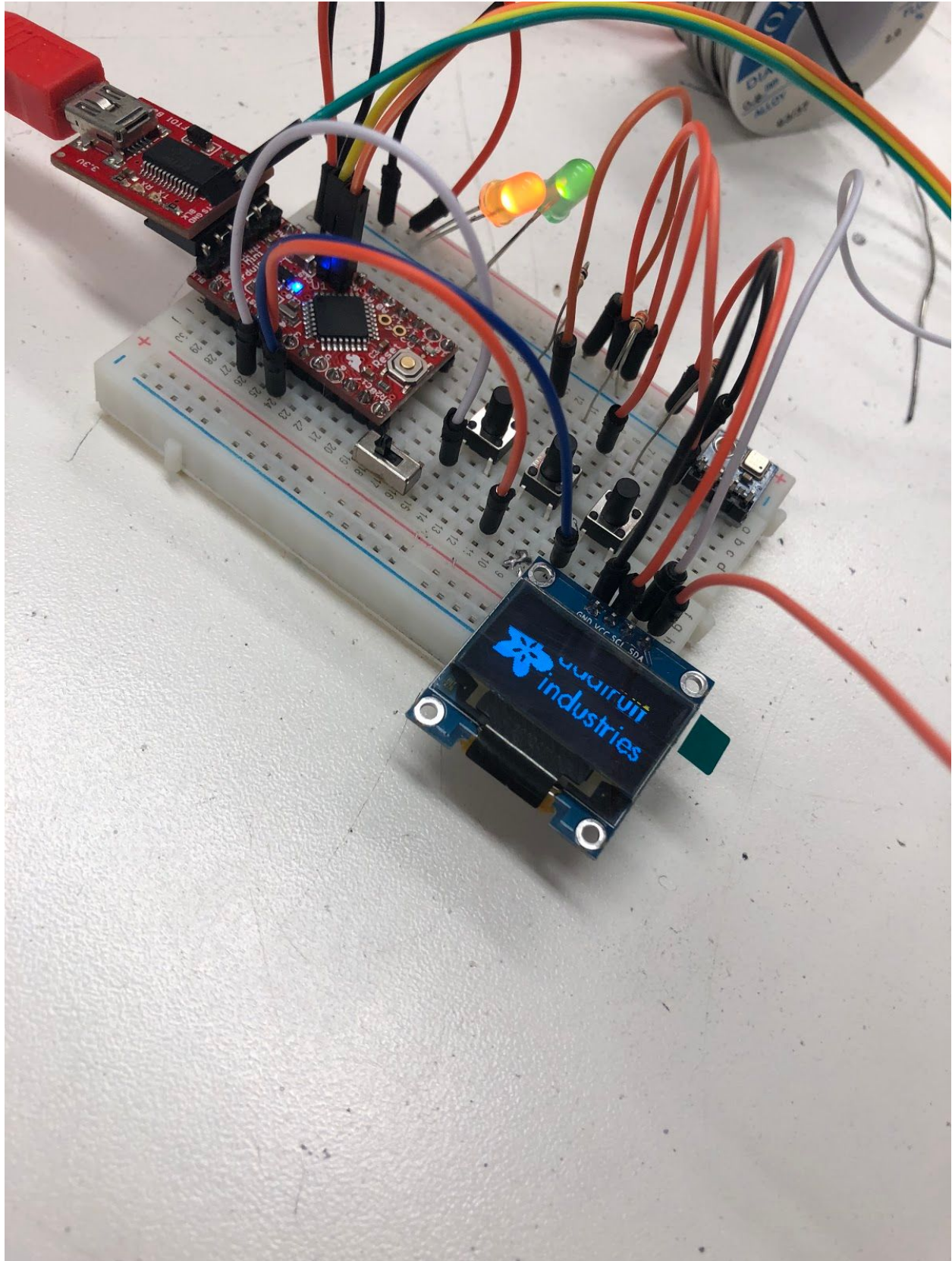
05 Function Proof

Functional Breadboard-

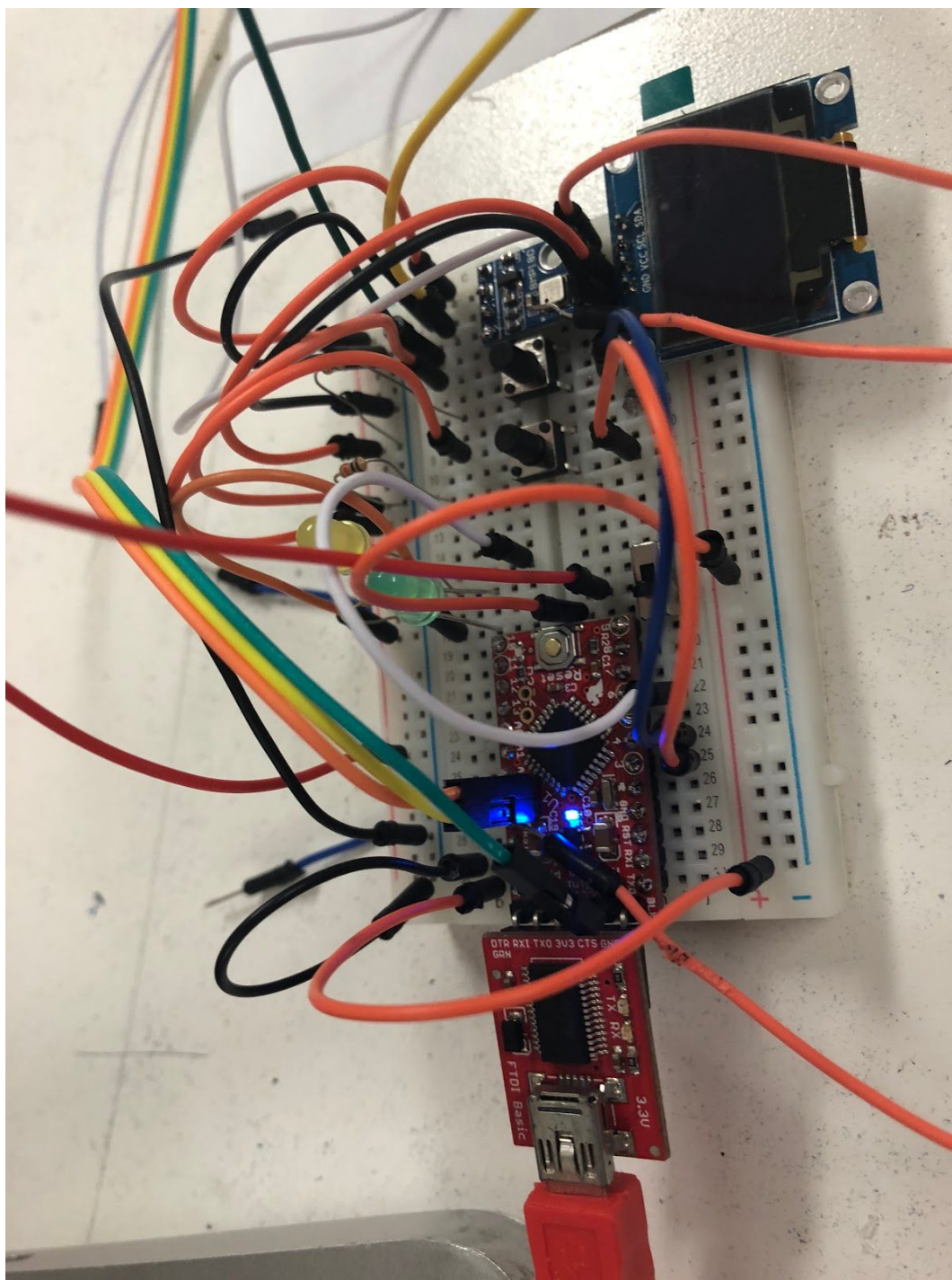




Buttons work properly. Not pictured: slide switch controlling power correctly



Screen loads startup menu



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

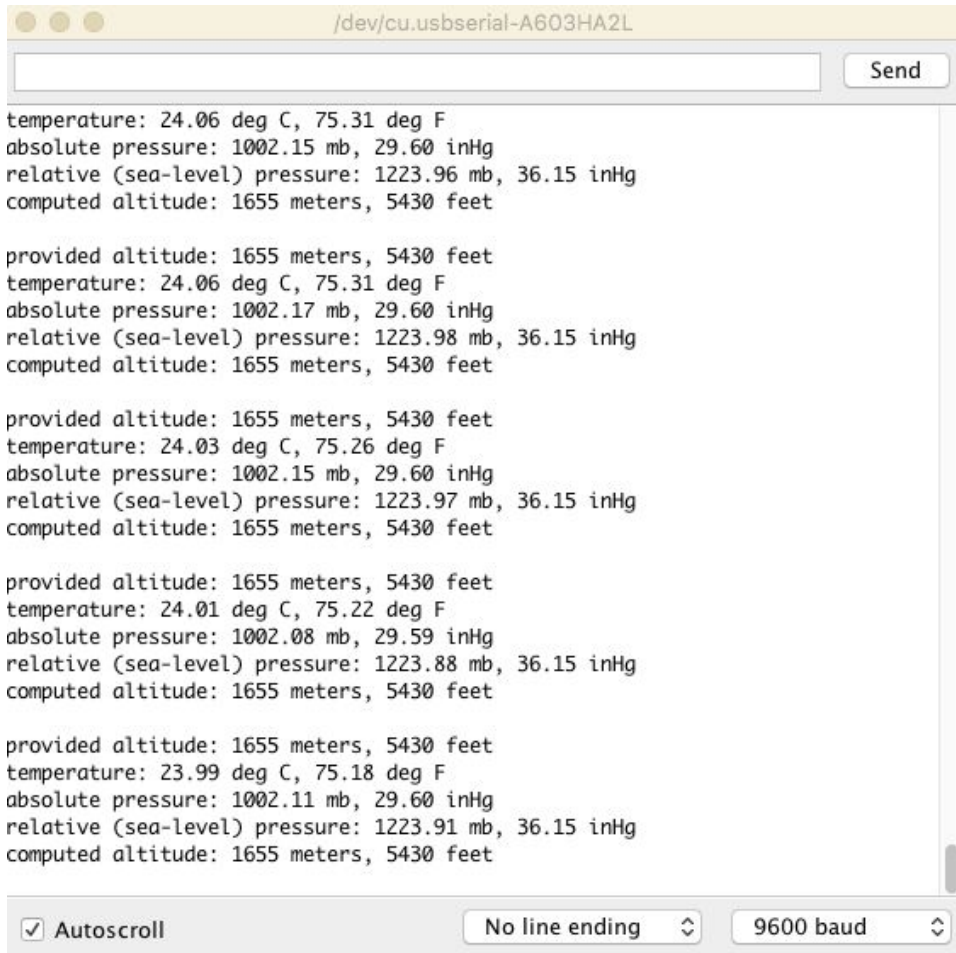
Libraries for Barometer:

```
#include <SFE_BMP180.h>
```

```
#include <Wire.h>
```

Example code for barometer:

File / Examples / Sparkfun BMP180 / SFE_BMP180_example //for BMP180



The screenshot shows a serial terminal window titled "/dev/cu.usbserial-A603HA2L". The window contains a text area with the following data: temperature: 24.06 deg C, 75.31 deg F; absolute pressure: 1002.15 mb, 29.60 inHg; relative (sea-level) pressure: 1223.96 mb, 36.15 inHg; computed altitude: 1655 meters, 5430 feet. This data is repeated five times with slight variations in temperature and pressure. At the bottom, there are controls: a checked "Autoscroll" checkbox, a "No line ending" dropdown menu, and a "9600 baud" dropdown menu.

```
temperature: 24.06 deg C, 75.31 deg F
absolute pressure: 1002.15 mb, 29.60 inHg
relative (sea-level) pressure: 1223.96 mb, 36.15 inHg
computed altitude: 1655 meters, 5430 feet

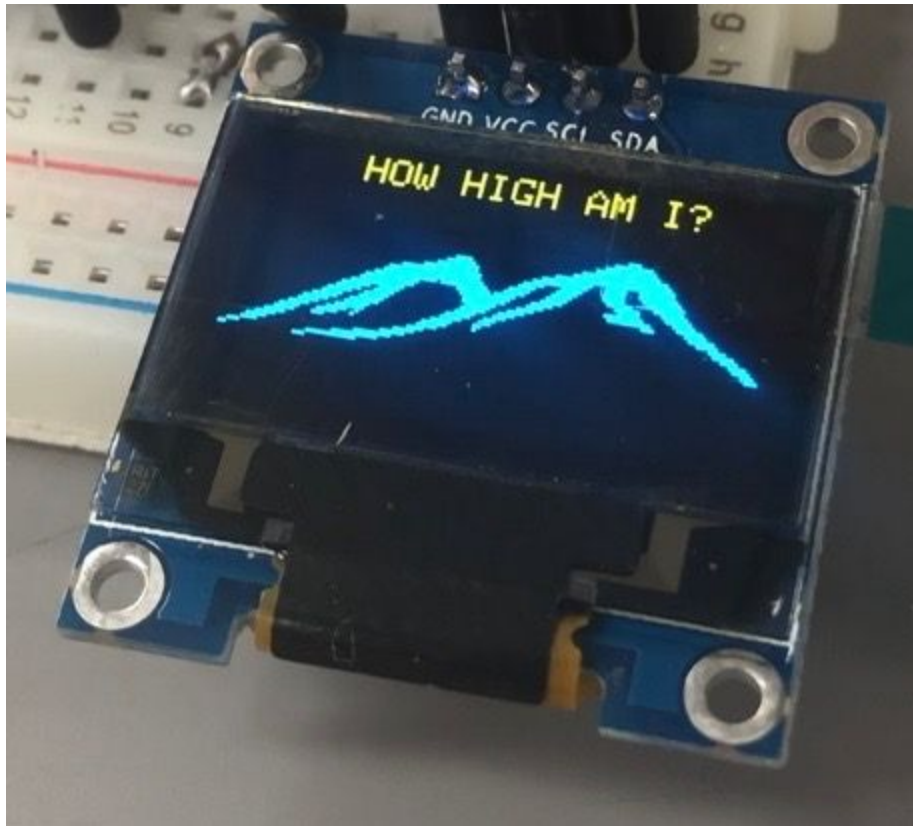
provided altitude: 1655 meters, 5430 feet
temperature: 24.06 deg C, 75.31 deg F
absolute pressure: 1002.17 mb, 29.60 inHg
relative (sea-level) pressure: 1223.98 mb, 36.15 inHg
computed altitude: 1655 meters, 5430 feet

provided altitude: 1655 meters, 5430 feet
temperature: 24.03 deg C, 75.26 deg F
absolute pressure: 1002.15 mb, 29.60 inHg
relative (sea-level) pressure: 1223.97 mb, 36.15 inHg
computed altitude: 1655 meters, 5430 feet

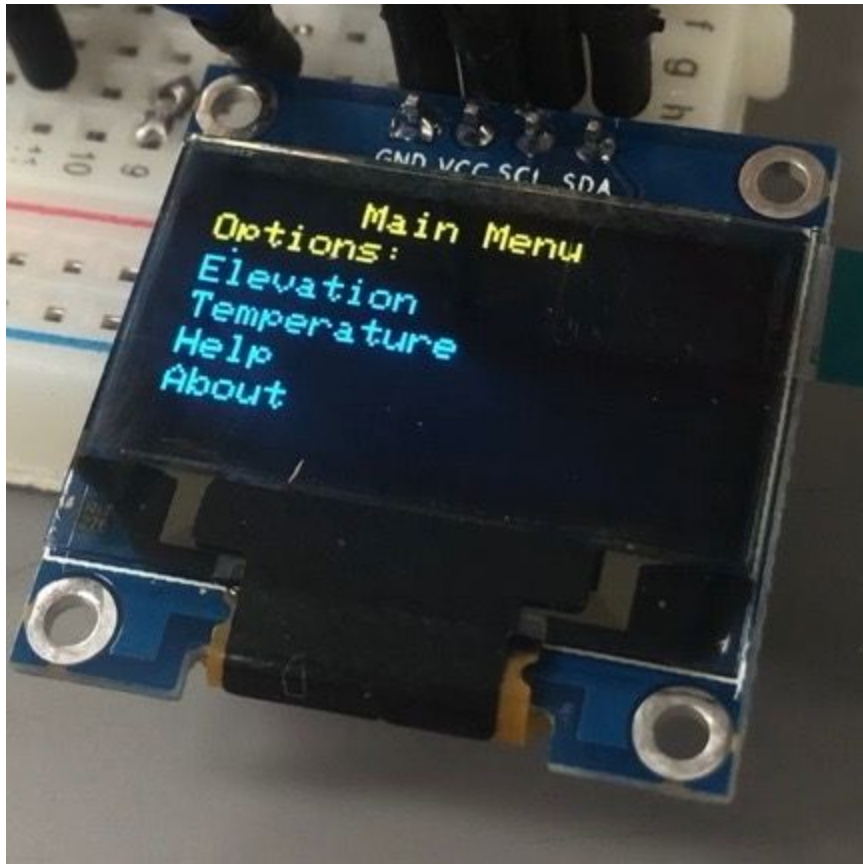
provided altitude: 1655 meters, 5430 feet
temperature: 24.01 deg C, 75.22 deg F
absolute pressure: 1002.08 mb, 29.59 inHg
relative (sea-level) pressure: 1223.88 mb, 36.15 inHg
computed altitude: 1655 meters, 5430 feet

provided altitude: 1655 meters, 5430 feet
temperature: 23.99 deg C, 75.18 deg F
absolute pressure: 1002.11 mb, 29.60 inHg
relative (sea-level) pressure: 1223.91 mb, 36.15 inHg
computed altitude: 1655 meters, 5430 feet
```

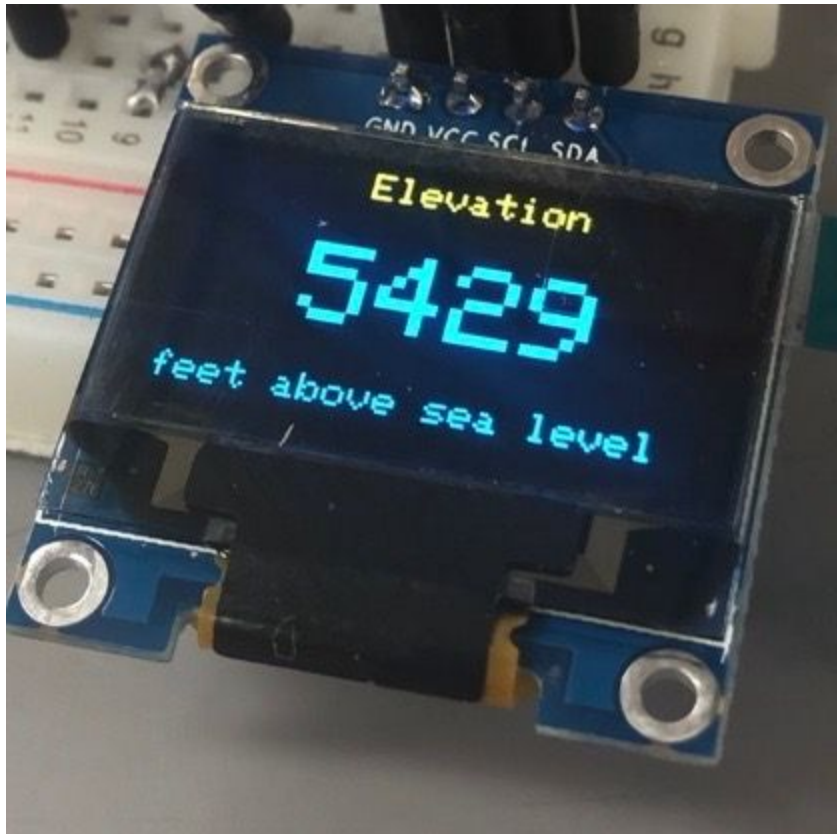
☒ Autoscroll No line ending 9600 baud



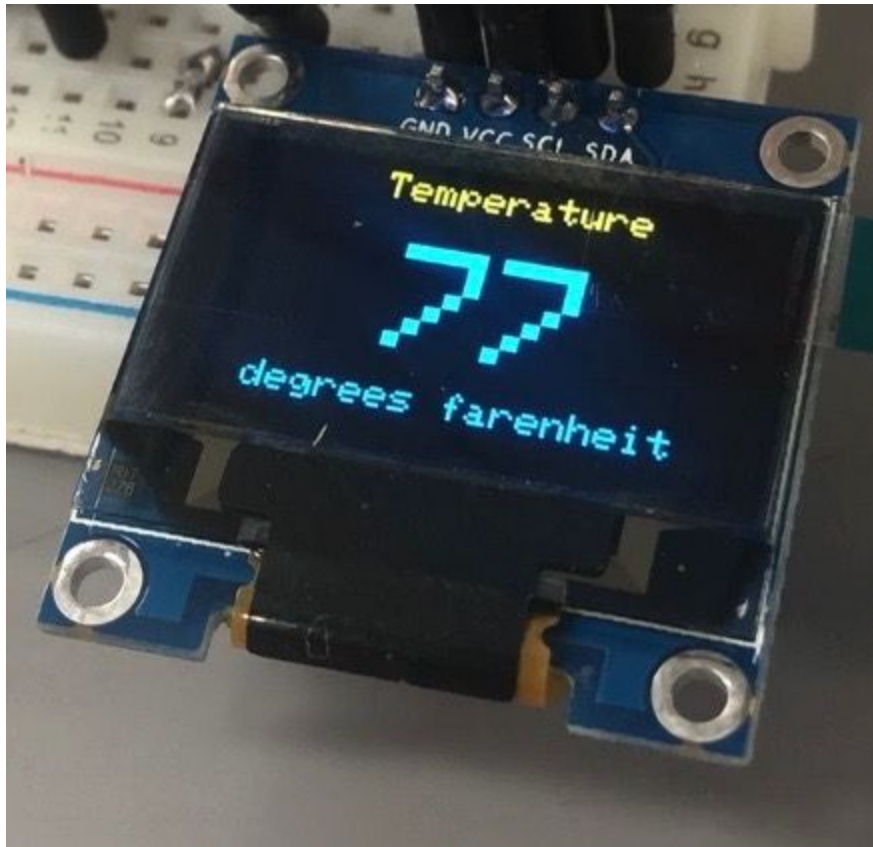
Splash Screen appears for 3 seconds upon starting program



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

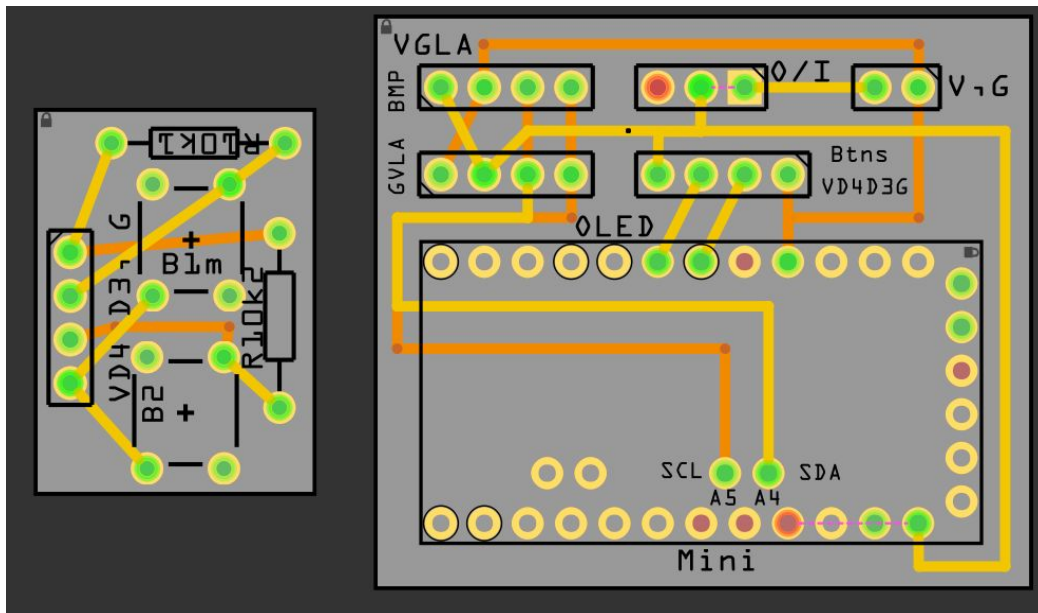
LED Screen: <https://www.youtube.com/watch?v=wloWlyvw2w4>
<http://www.instructables.com/id/Monochrome-096-i2c-OLED-display-with-arduino-SSD13/>

LiPo Booster: <https://www.youtube.com/watch?v=aND0j2Y2IkM>

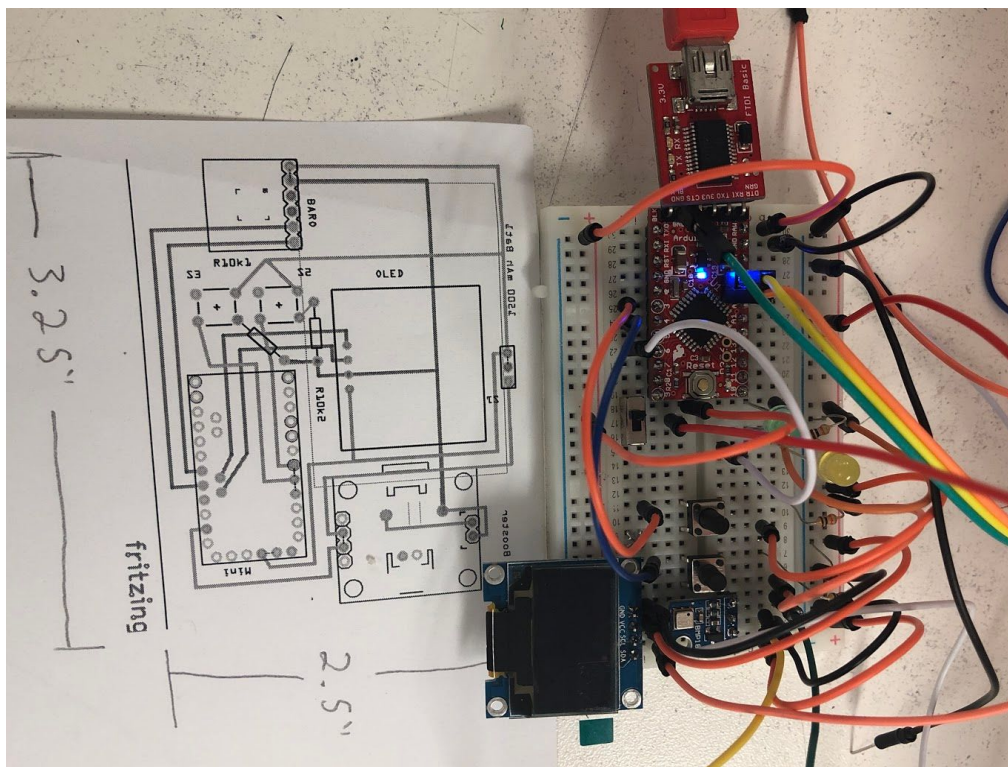
Buttons: <https://learn.sparkfun.com/tutorials/switch-basics>

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