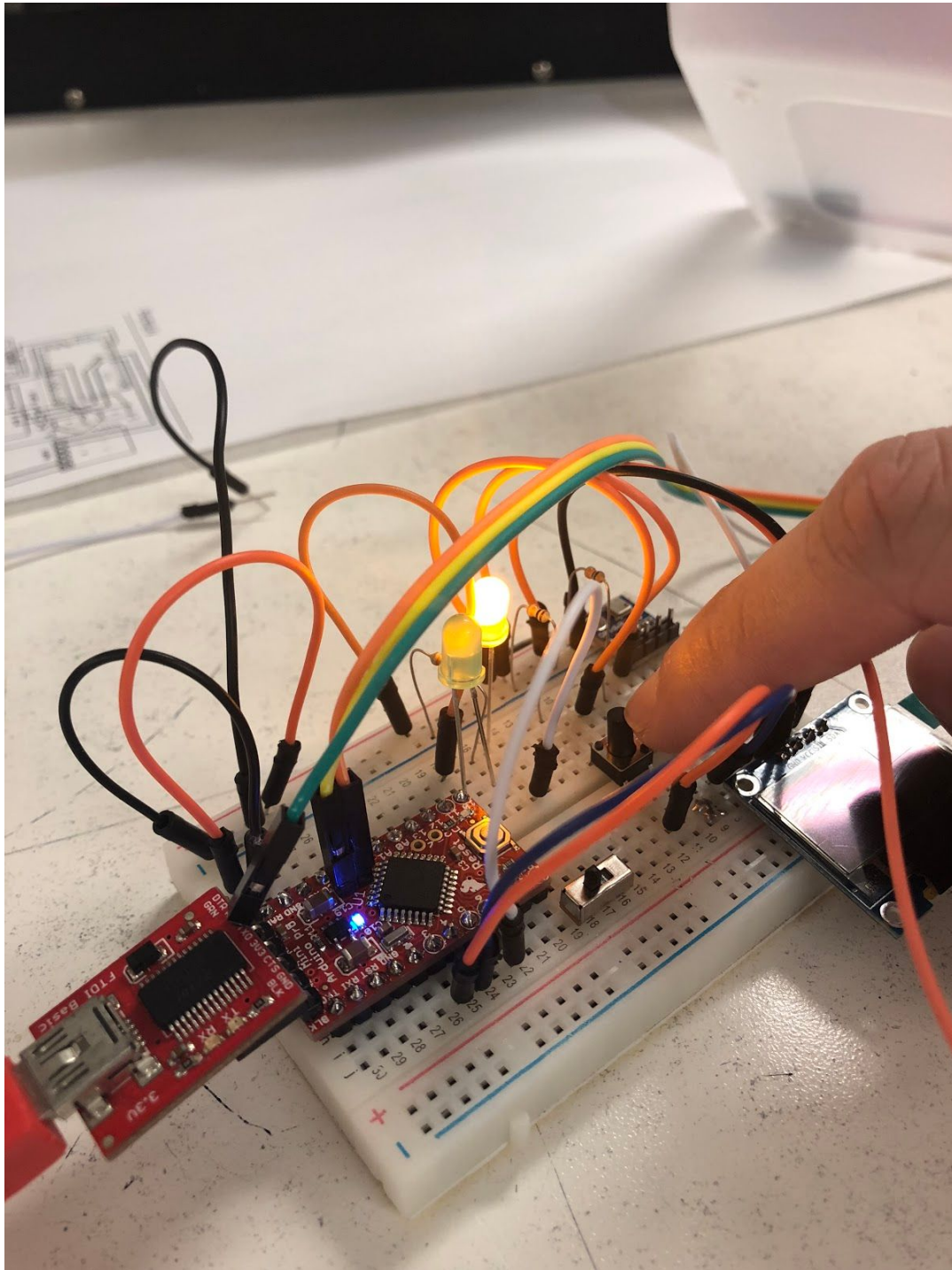
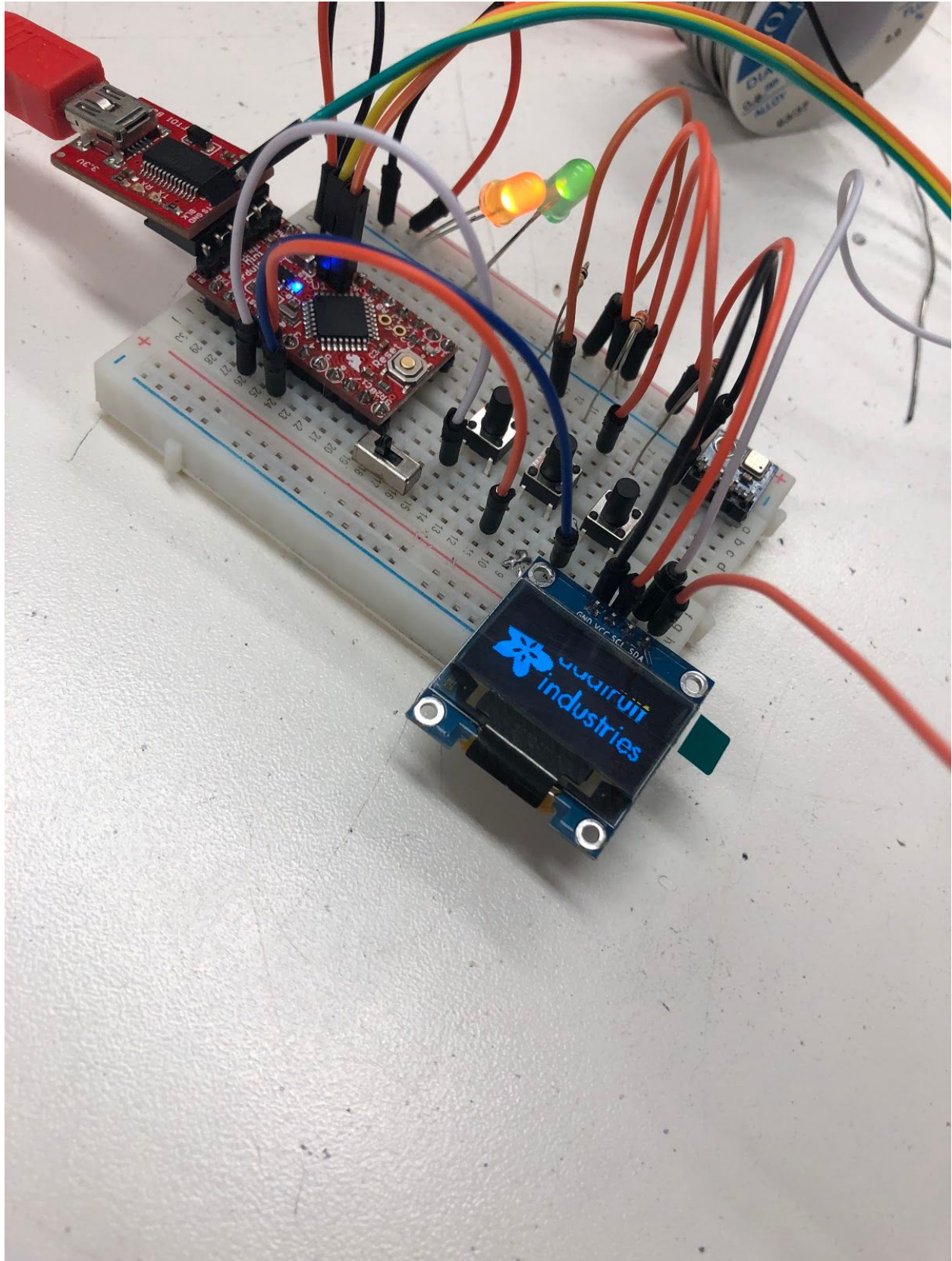


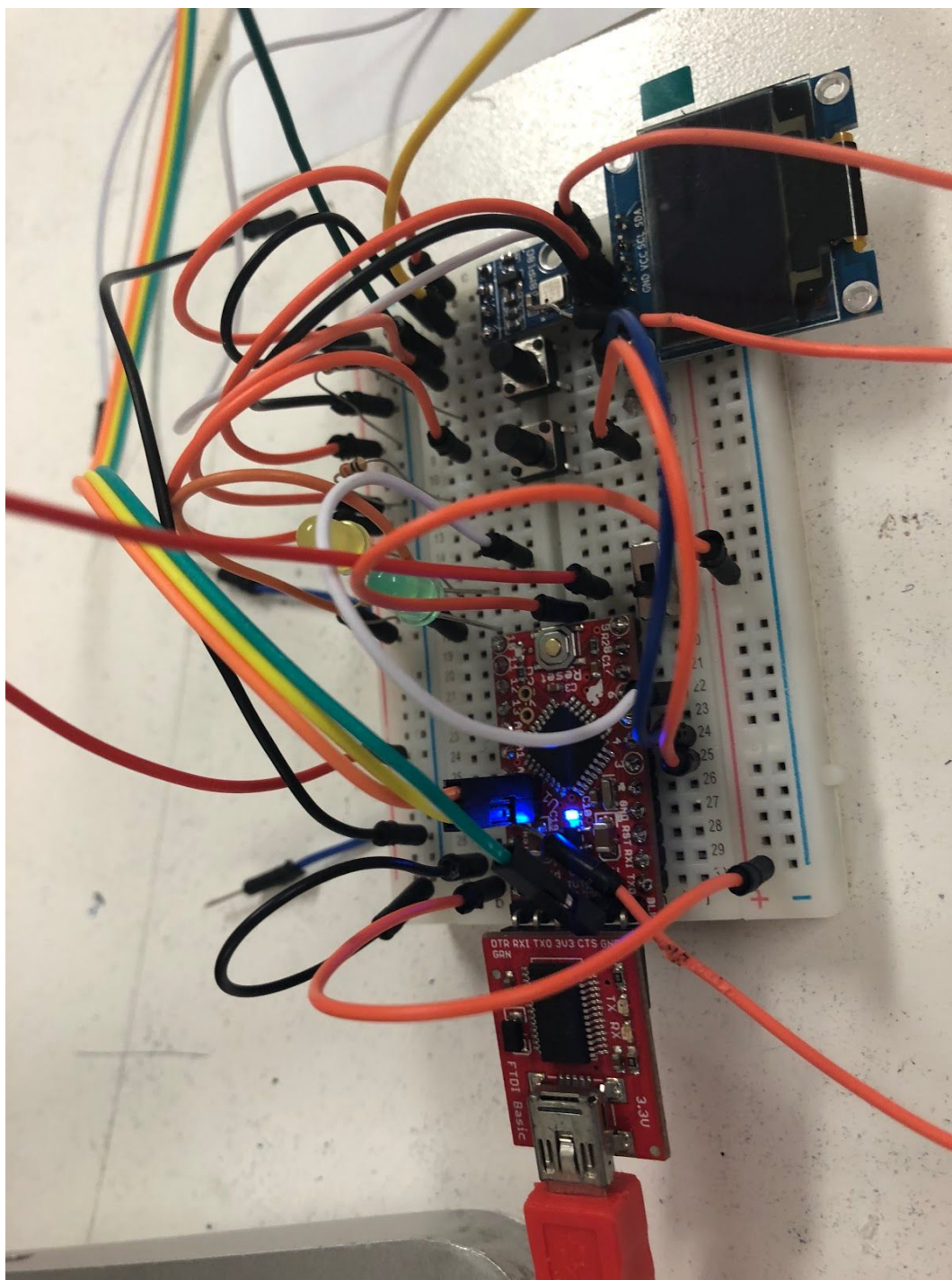
05 Function Proof



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

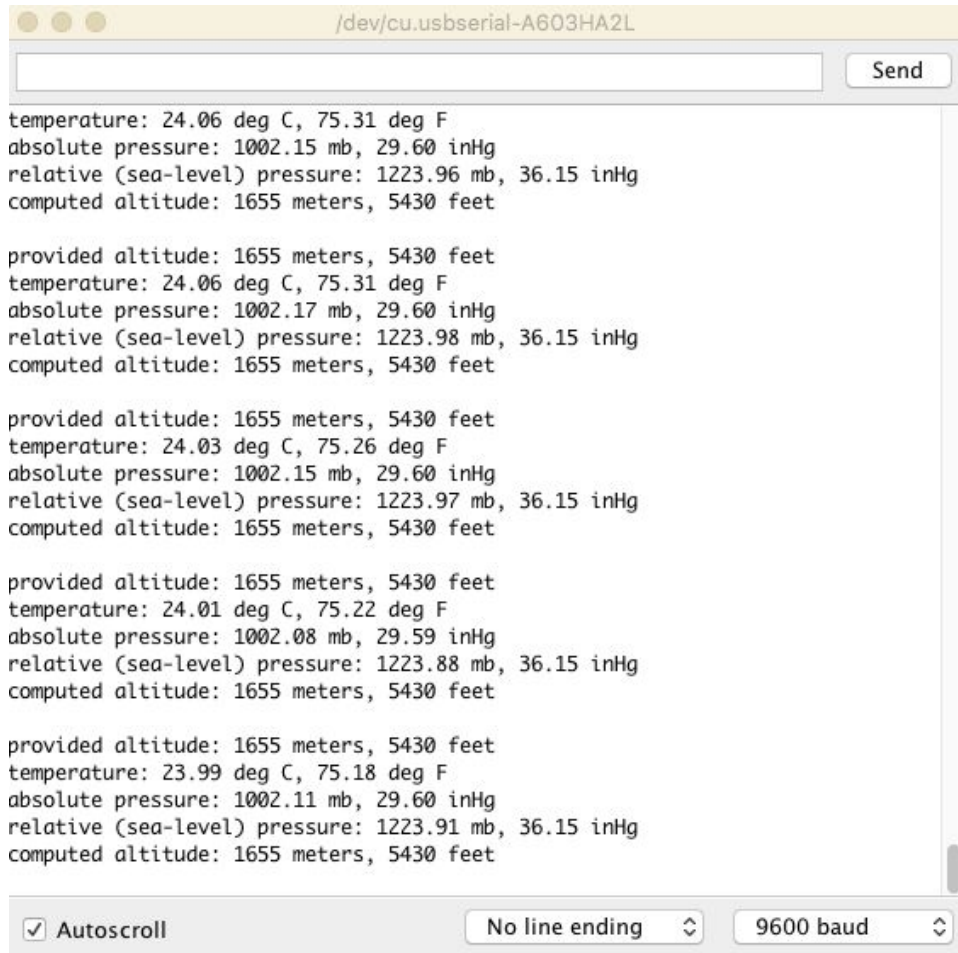
Libraries for Barometer:

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

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

Example code for barometer:

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

A screenshot of a serial monitor window titled "/dev/cu.usbserial-A603HA2L". The window has a "Send" button in the top right. The main area displays five blocks of sensor data, each preceded by "provided altitude: 1655 meters, 5430 feet". Each block contains: "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", and "computed altitude: 1655 meters, 5430 feet". The bottom of the window features a control bar with 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
```

LED Screen: <https://www.youtube.com/watch?v=wloWlyvw2w4>

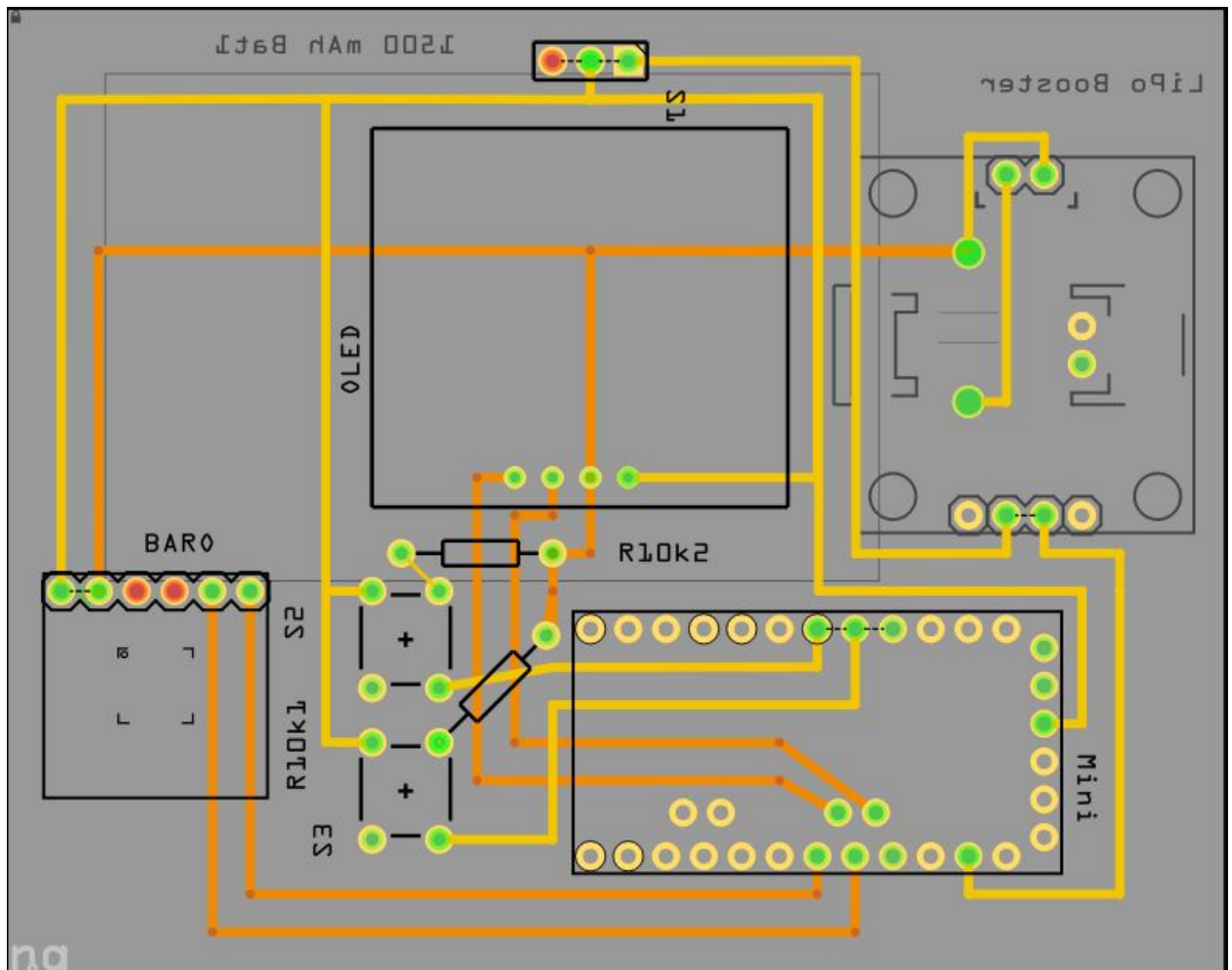
<http://www.instructables.com/id/Monochrome-096-i2c-OLED-display-with-arduino-SSD13/>

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

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

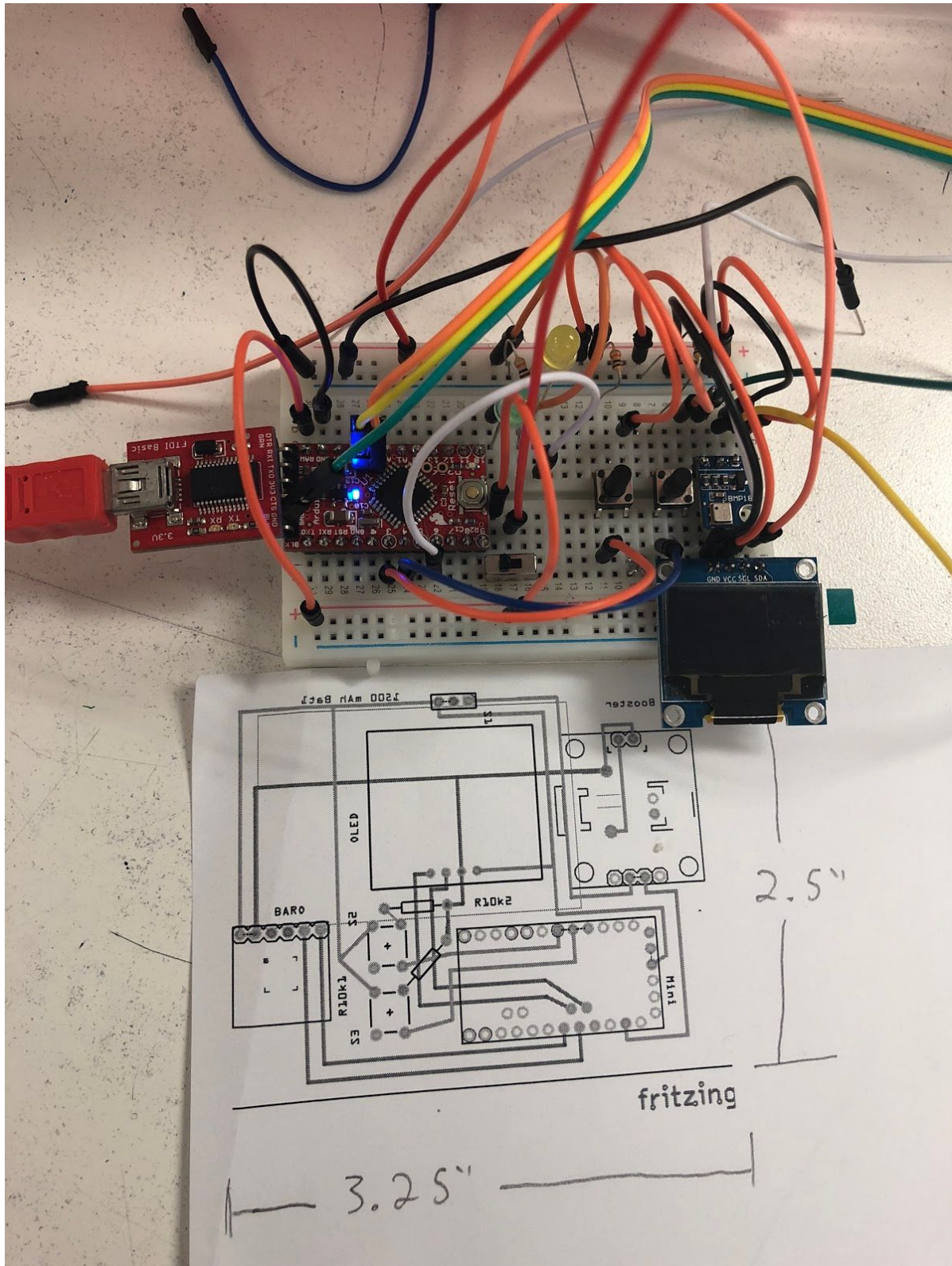
Barometer: <https://learn.sparkfun.com/tutorials/bmp180-barometric-pressure-sensor-hookup->

- PCB Design -



Design Rules Check your circuit prior to submission (wires overlapping under OLED, batt & batt booster overlapping on other side?)

PCB Paper Test -



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