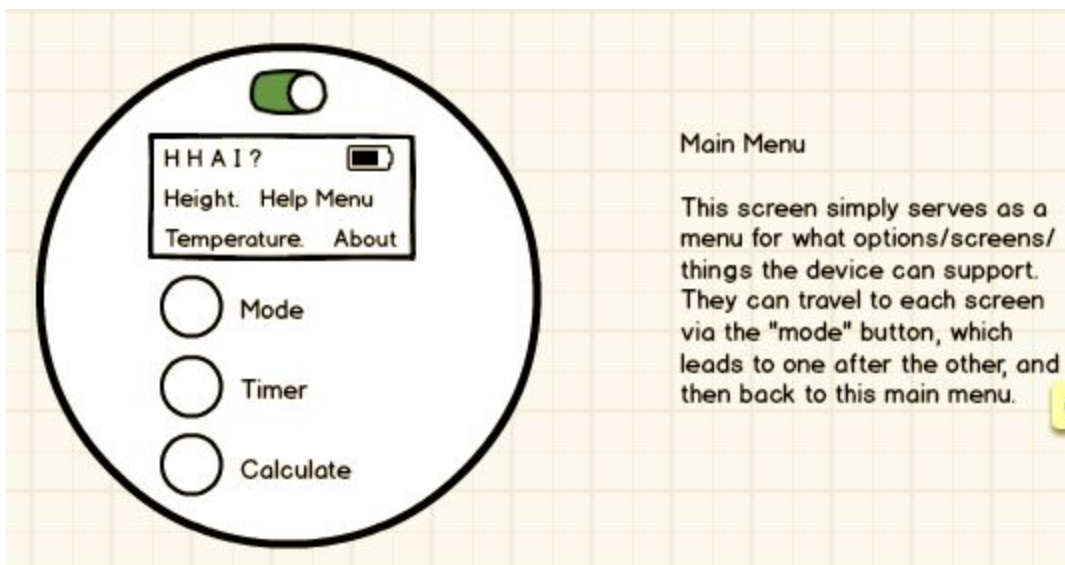
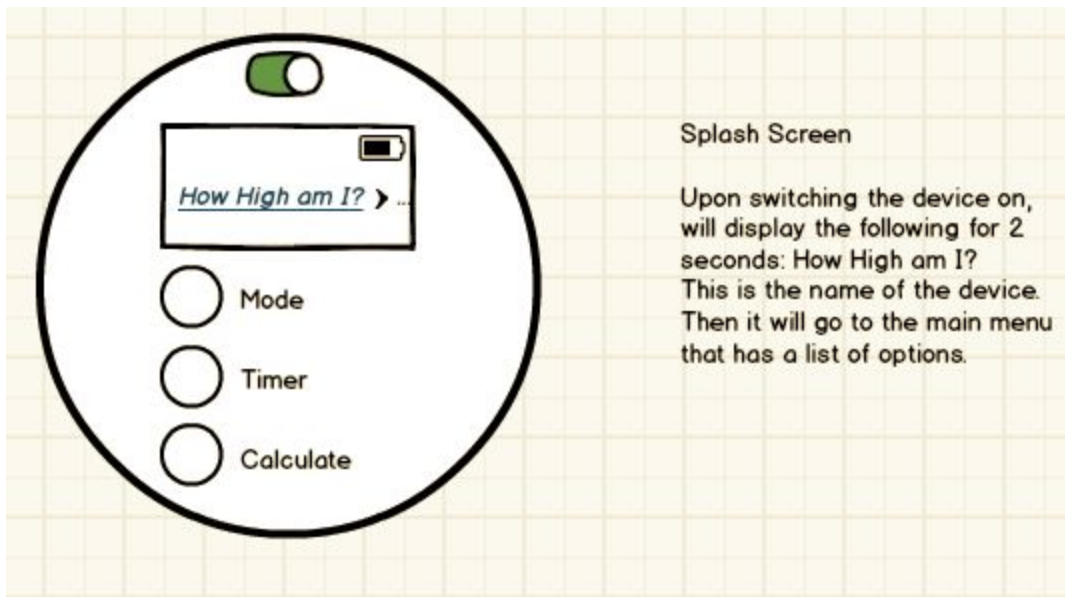
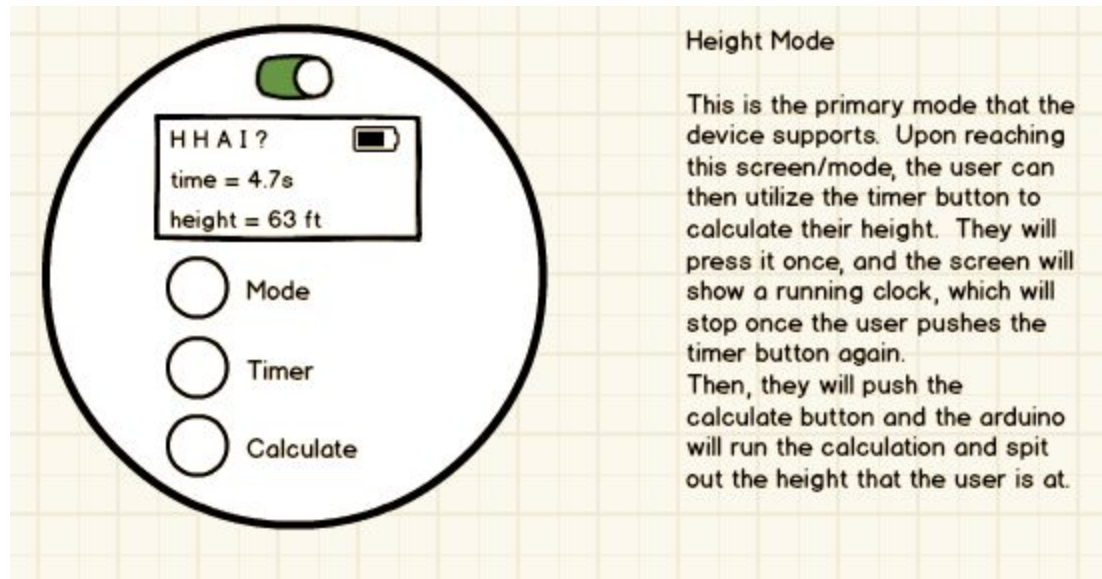
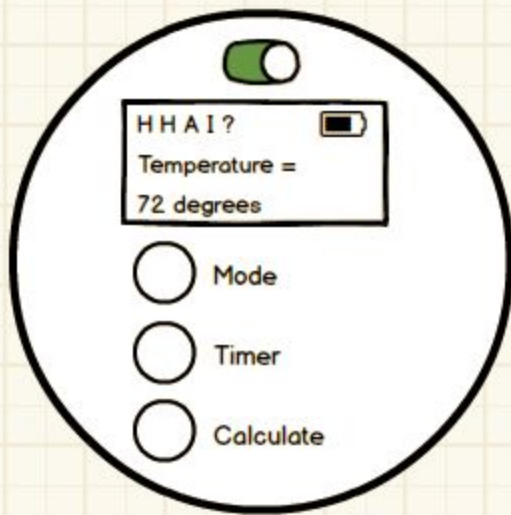


- Wireframe Storyboard

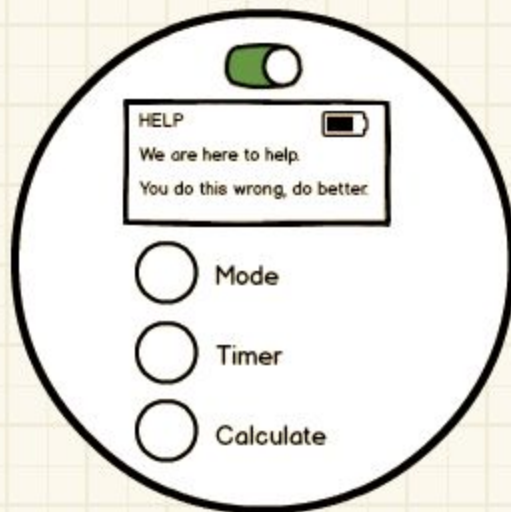






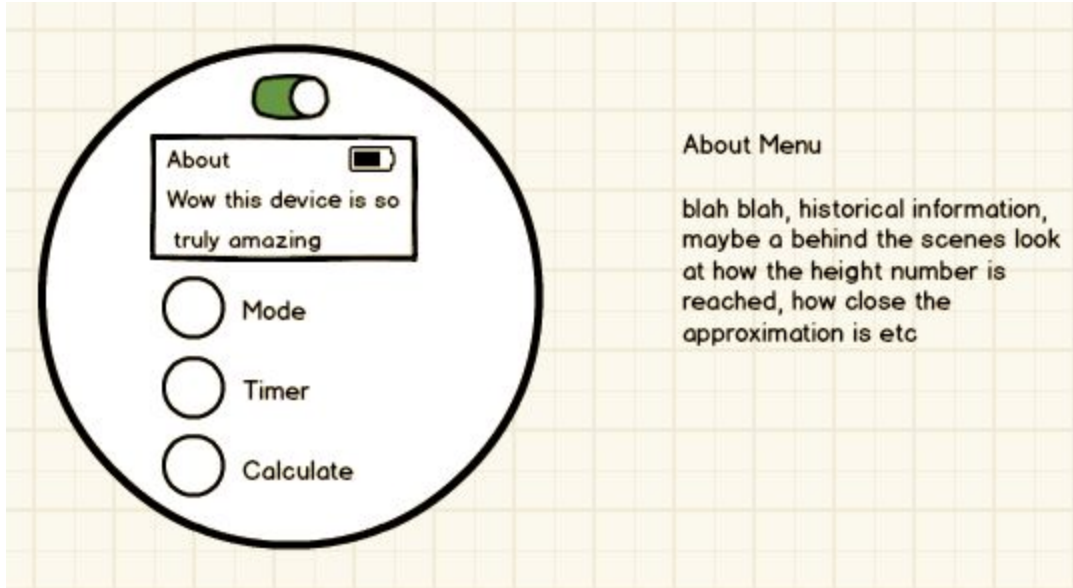
Temperature Mode

This is the secondary mode that the is usable with this device. It is quite simple as the user only needs to press the calculate button. Once they do, the arduino will pull information from the temperature sensor and display it in an easy to read form for the user.

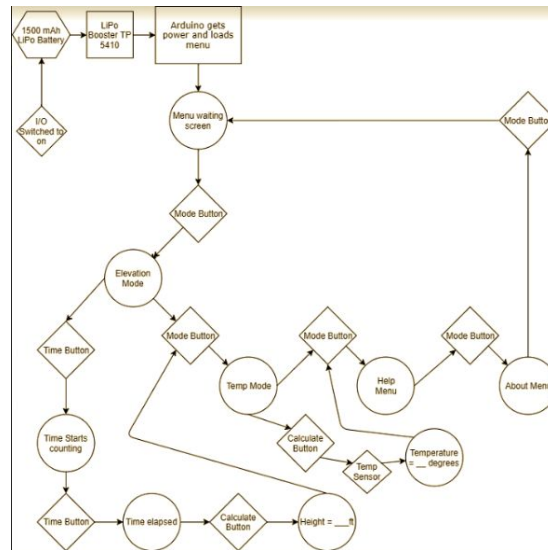
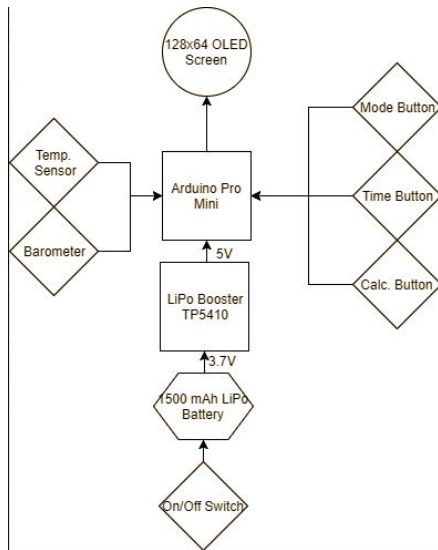


Help Menu

This menu talks the user through how to use the device. As well as some potential errors they may make and what the easy fix is.



○ Component Sketch



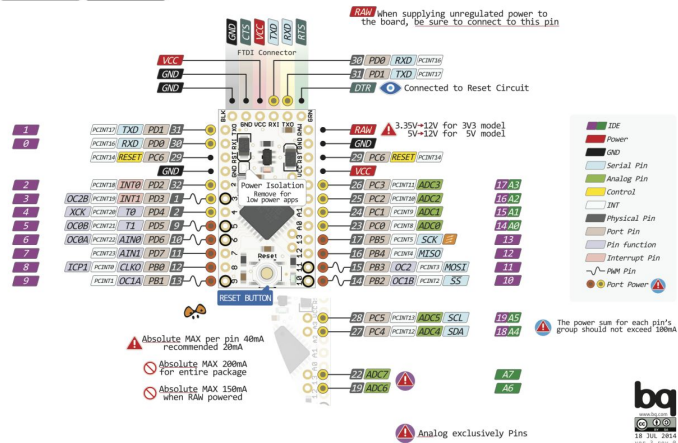
State zone

○ Bill of Materials -

Name	Source	URL	Qty.	Cost
Arduino Pro Mini	AliExpress	https://www.aliexpress.com/item/New-Pro-Mini-atmega328-3-3V-8M-Replace-ATmega128-For-Arduino-Compatible-Nano/32647454524.html?src=google&albslr=227527957&isdl=y&aff_short_key=UeMJZVf&source=%7Bifdyn:dyn%7D%7Bifpla:pla%7D%7Bifdbm:DBM&albch=RID%7D&src=google&albch=shopping&acnt=708-803-3821&isdl=y&albcpr=653153647&albag=34728528644&slnk=&trgt=61865531738&plac=&crea=en32647454524&netw=g&device=c&mtctp=&gclid=Cj0KCQiA2Y_UBRCGARIsALglQ0KN6rUBSjCU7bKEdwXzWDKOPitA_ZToLjILTfjA0hYTsqSTGqi-AaArqkEALw_wcB	1	\$2.40
OLED Screen 128x64	Amazon	https://www.amazon.com/gp/product/B01G6SAWNY/ref=oh_aui_detailpage_o07_s01?ie=UTF8&psc=1	1	\$8.99
1500 mAh LiPo Bat.	Amazon	https://www.amazon.com/Battery-Packs-Lithium-Polymer-1200mAh/dp/B00J2QET64/ref=sr_1_1?s=industrial&ie=UTF8&qid=1513901629&sr=1-1&keywords=lipo	1	\$14.62
LiPo Booster TP5410	Ebay	https://www.ebay.com/itm/191990401129?rmvSB=true	1	\$2.19
10k Ohm Resistor	Lab		3	\$2
Push Buttons	Lab		3	\$2
Power Slide Switch	Lab		1	\$1
Temp Sensor TMP36	AdaFruit	https://www.adafruit.com/product/165?gclid=Cj0KCQiA2Y_UBRCGARIsALglQ1fEeY4ayWv0w27siU1QeIS5y7AANKBSgRCcnbfzh0ggjZR8UN9L_MaAnznEALw_wcB	1	\$1.50
Barometer BMP180	MakerAdvisor	https://makeradvisor.com/tools/bmp180-barometric-sensor/	1	\$2

Total cost: \$ 36.70

References:



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

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

LiPo Battery:

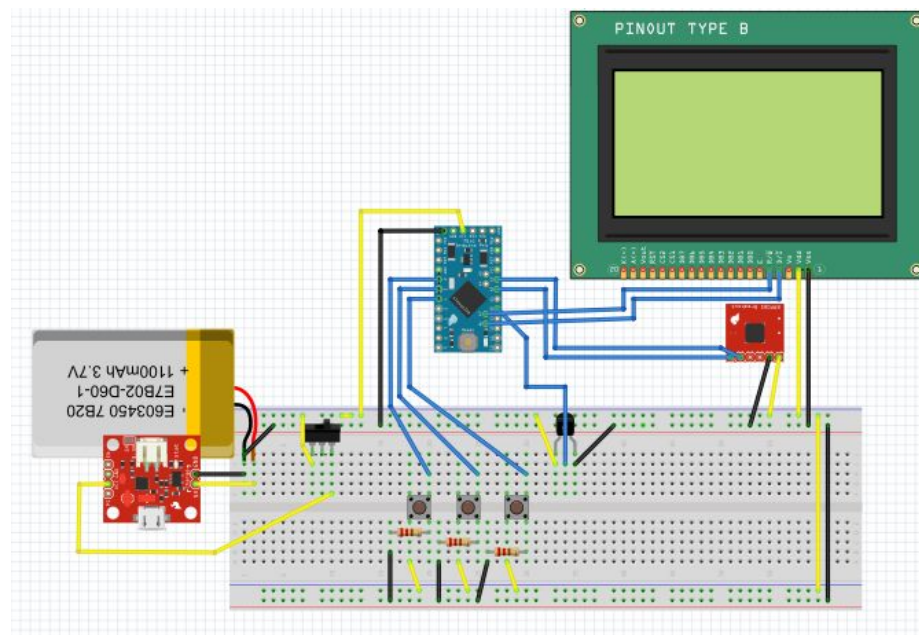
LiPo Booster: <https://www.youtube.com/watch?v=aND0j2Y2IkM>

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

Temp Sensor: <https://learn.adafruit.com/tmp36-temperature-sensor/using-a-temp-sensor>

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

- Breadboard Model -



- Electronic Schematic

