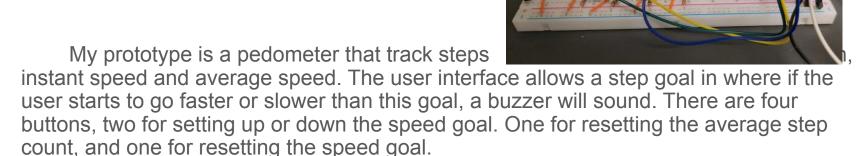
ENGI 301

<Smol Pace Keeper> PCB Proposal

<11/15/21>
<Juan Arturo Garza>

Background Information

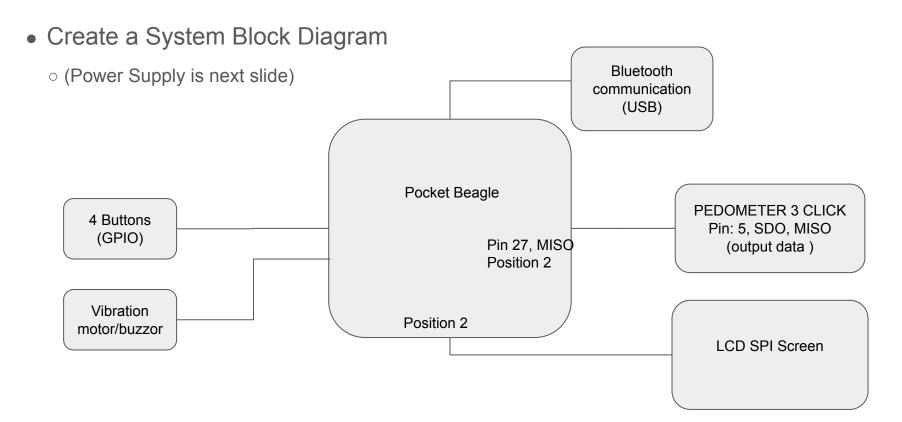
Hackster / GitHub



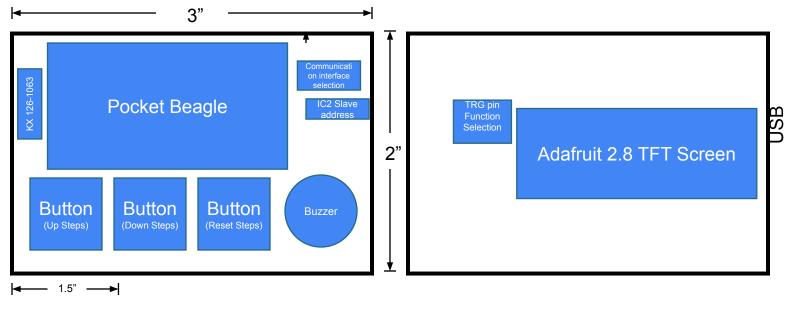
For this project, I will change the amount of buttons to three: two for setting up or down the goal speed. One for resetting the average step count and speed goal. I will also add a switch for the buzzer mode being on or off.

The SPI screen will need to be smaller for the desired application. The sensor will stay the same.

System Block Diagram



Mechanical Drawing



FRONT BACK

On the back, components of the pedometer Oclick 3 are places to be on one board.

Components Required

- Create a list of all the components that you require for the PCB
 - USB Host connector
 - PEDOMETER 3 CLICK, <u>link</u>
 - Battery
 - o SPI LCD screen, 1.4 inches
 - 3 Buttons
 - 1 Buzzer
 - https://www.adafruit.com/product/1770