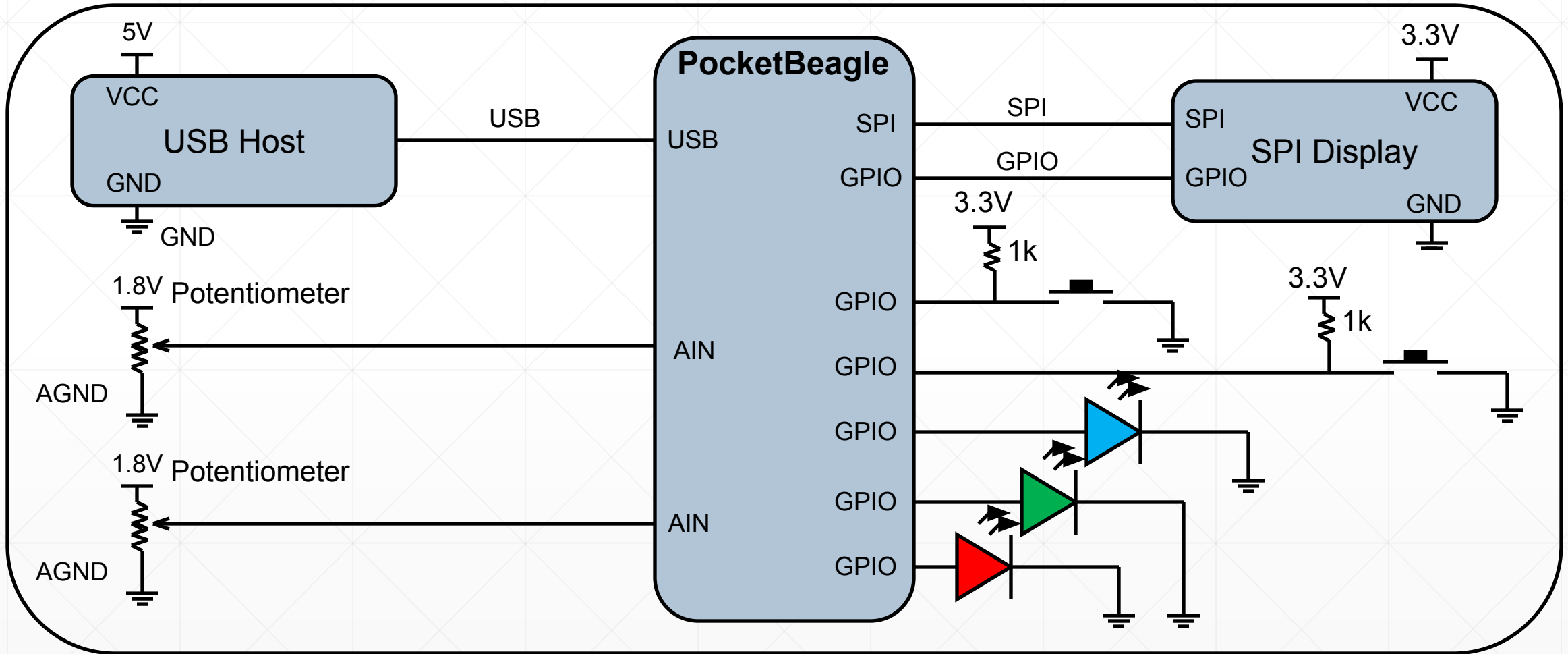# ENGI 301

PCB Project

Singrhu Poltanawasit

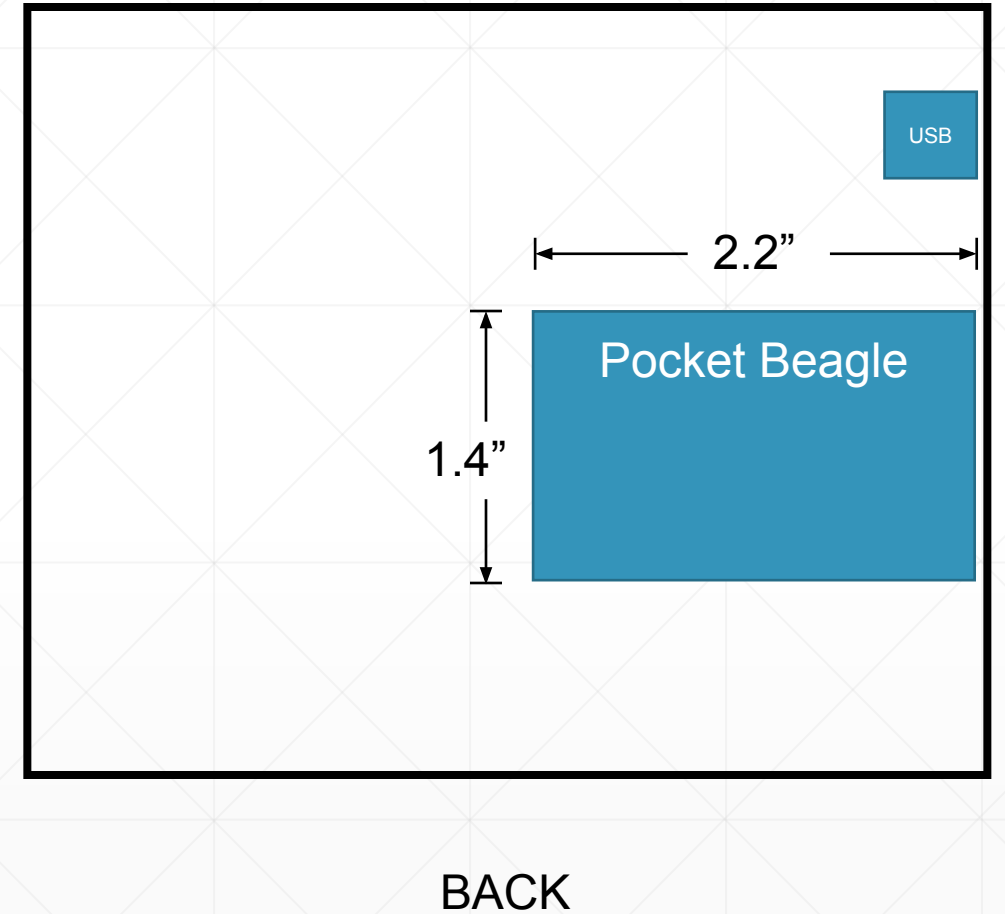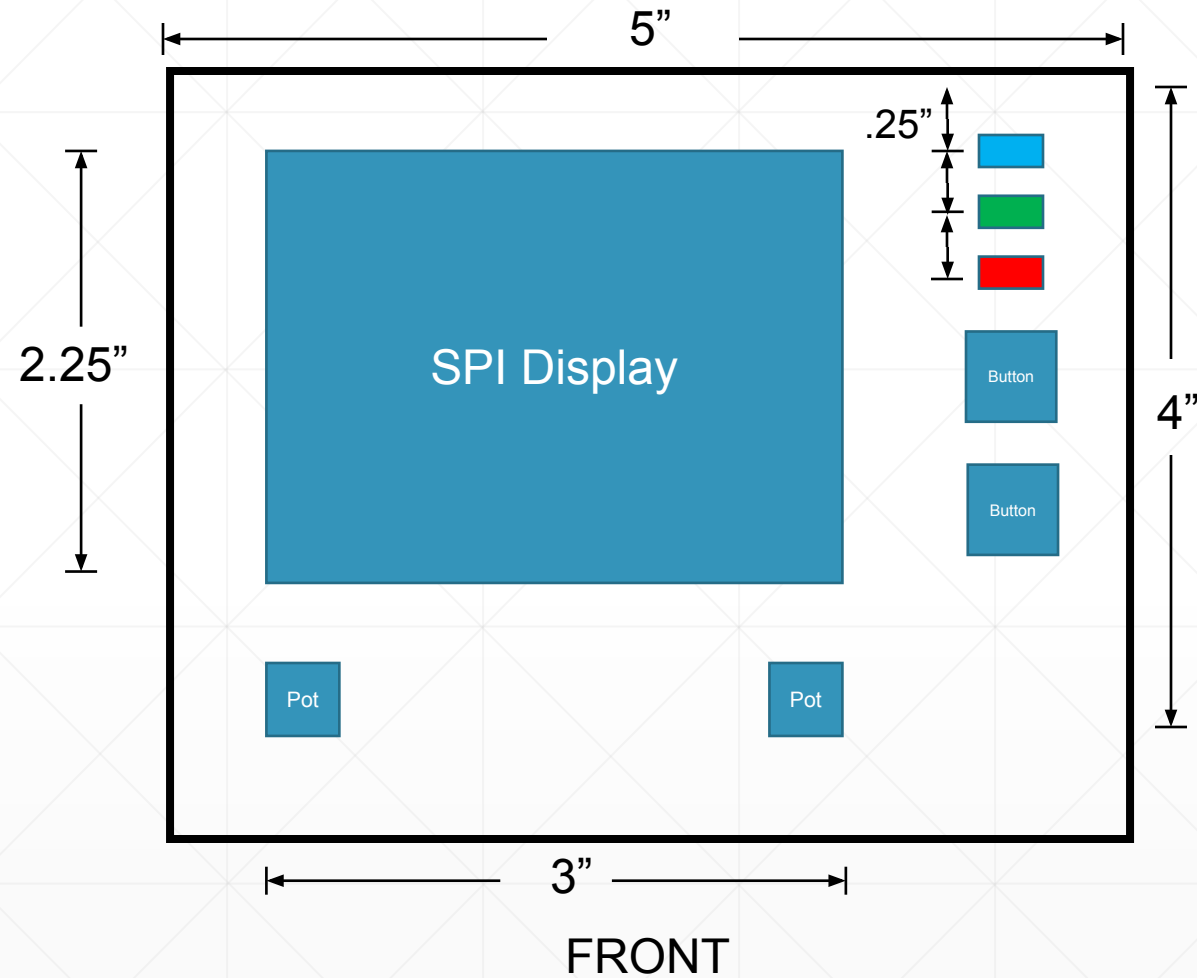Due 12/13/2022 @ 11:59pm

Background Information

- Create a PCB for an "Etch-a-Sketch"

- Hardware:
  - SPI Display Screen
  - Two Potentiometers
  - Two Buttons (Reset the Game, Change Color)
  - Three LEDs (Red, Green, and Blue for Color)
  - USB Port (Expansion)

System Block Diagram – "Etch-a-Sketch"

Mechanical Drawing

5"

.25"

SPI Display

Button

Button

USB

2.25"

4"

Pot

Pot

3"

FRONT

Pocket Beagle

2.2"

1.4"

BACK

BOM

Part:	Size:
SPI Display Screen	3" x 2.25"
Potentiometer	0.375" x 0.375"
Button	0.47" x 0.47"
Pocket Beagle	2.2" x 1.4"
USB Port Expansion	.48" x .45"