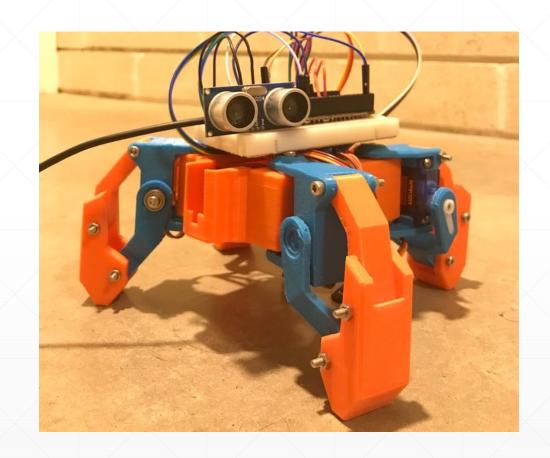
ENGI 301

Bubba PCB Proposal

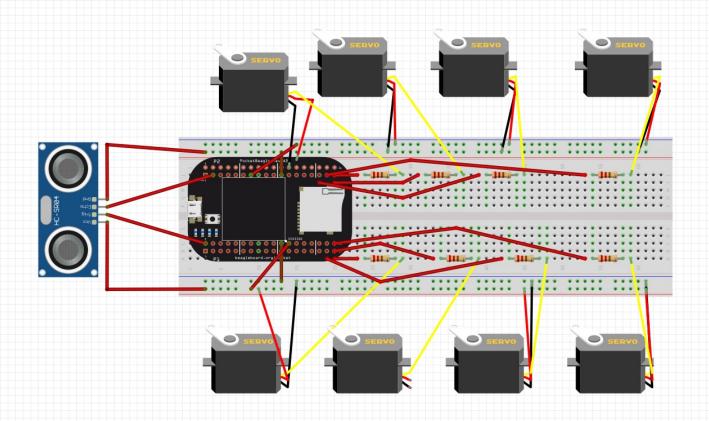
11/14/2021 Mantej Singh

Background Information

- What is being proposed?
 - Hackster Page
 - https://www.hackster.io/ms146/bubb a-the-quadrupedal-spider-robot-7b09ac
 - Github Page
 - https://github.com/MantejSingh21/E NGI301



Fritzing Diagram



```
Black wires – GND

Red Wires – V_{out}

SG90 (Yellow wires) –

servo1 = "P2_1"

servo2 = "P2_3"

servo3 = "P1_36"

servo4 = "P1_33"

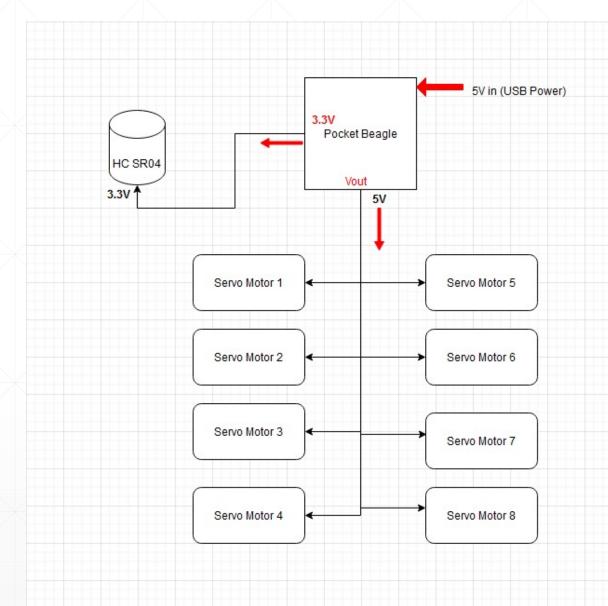
HCSR04

trigger = "P1_6"

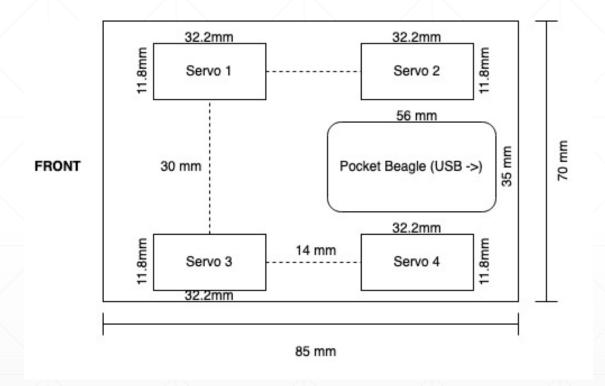
echo = "P1_8"
```

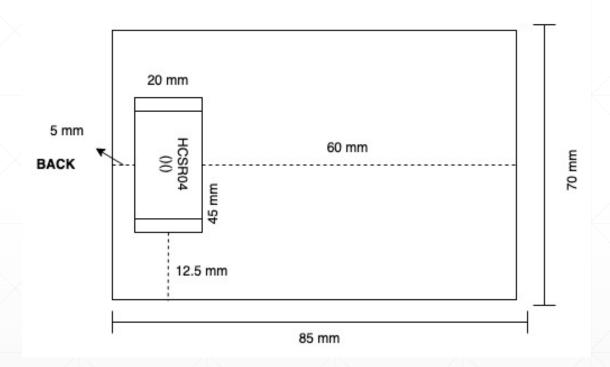
fritzing

System + Power Block Diagram



Mechanical Block Diagram





Components Required

- 1x Pocket beagle
- 4x SG90 Servo Motors
- 1x HCSR04 Sensor
- 4x 3-pin 100-mil servo connector
- 6x male-to-male jumper wires