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Engineering 1020

October 1, 2020

**Prelab 4**

1. **Decision**

I want to do the Rotor Motor!

1. **Pseudocode first part**

Amount equal to 10

For input range of amount

Get the average of input

1. **Flow Chart**

Diagram

Description automatically generated

1. **Pseudocode second part**

Amount equal to 10

For input range of amount

Get the average of input

If average input is greater than ideal amount

Increase servo motor to set amount 90.

Elif average input is less than ideal amount.

Decrease servo motor to set amount 90

1. **Test**

Move the rotary dial to the extreme (1023) the average would be really high, and it will have to decrease a significant amount to be at the set amount of 90 of the output.

Move the rotary dial to the other extreme (0) the average would be really low, and it will have to increase a significant amount to be at the set amount of 90 of the output.

I have another test idea but I’m not sure if it’s possible:

It would be to move the rotary dial in between the extremes when the code is collecting the 10 samples so we have a variety of numbers and the average can change. I do not know what the output would display since it all depends on the average of the inputs which I do not know what it would be. It can either be greater or less than the set value of 90 of the servo motor.