Lesson Plan November 5th, 2021

Wednesday, November 3, 2021 7:52 PM

po

Potentiometers spit out A NUMBER FROM 0-1023. we can read this number in an analog input on our arduino (A0-A5). This is what we are going to be using initially to control our servos. We can do this by doing a little bit of math or by using a command in arduino. We can either do: angle=(potentiometer #)/180 or we can use the map function(show).

Now were going on to servos. Servos are motors that can change and hold specific angles. We can control servo angles by using commands in arduino,

IMPORTANT SERVO COMMANDS:

VarSpeedServo (variable name);-makes an object that can be controlled by the servo commands.

(Variable).attach -connects a Arduino pin to a servo

(variable).slowmove(angle,speed)-this command allows you to change the angle of the servo as well as how fast it does it.

Itinerary:

Explain design choices of the claw

Explain code(as well as show the code)

Give them a module and ask them to make two more for each servo.

Plug in servos and move them.

Try to assemble first part of claw.