//Blue Robotics basic thruster control program using remote potentiometers.

int LeftPotPin = 3; // control potentiometer wiper (middle terminal)

int RightPotPin = 4; // outside leads to ground and +5V

int LeftESCPin = 13; // motor ESC connected to digital pin

int RightESCPin = 14;

void setup()

{

pinMode(LeftESCPin, OUTPUT); // sets the digital pin as output

pinMode(RightESCPin, OUTPUT);

Serial.begin(9600); // setup serial for debug

}

void loop()

{

int LeftPotVal = analogRead(LeftPotPin); // read the input pin

delay(10);

int RightPotVal = analogRead(RightPotPin);

delay(10);

LeftPotVal = map(LeftPotVal, 0, 1023, 1100, 1900);

RightPotVal = map(RightPotVal, 0, 1023, 1100, 1900);

Serial.println(LeftPotVal); // debug value

Serial.println(RightPotVal);

digitalWrite(LeftESCPin, HIGH);

delay(LeftPotVal);

digitalWrite(LeftESCPin, LOW);

digitalWrite(RightESCPin, HIGH);

delay(RightPotVal);

digitalWrite(RightESCPin, LOW);

delay(10);

}