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#include <Servo.h>

// Analog input pin that the potentiometer is attached
to
const int analogInPin = A0;

// control the ESC/Motor
Servo motor;

// motor throttle value
int throttle;

// stores the raw sensor value of the potentiometer
int sensorValue;

void setup() {
  // ESC that controls the motor is connected to pin 9
  on Arduino
  motor.attach(9);

  // initialize serial communications at 9600 bps:
  // this allows the Arduino to send a data to your PC
(for debugging purposes only)
  Serial.begin(9600);
}

void loop() {
  // read the potentiometer value (raw value)
  sensorValue = analogRead(analogInPin);
```

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// converts the 0 to 1023 range to 1000 to 2000 range
throttle = map(sensorValue, 0, 1023, 1000, 2000);

// set the motor speed based on the throttle variable
// throttle value can be 1000 to 2000
motor.write(throttle);

//simply prints the value of the sensor to the
Arduino Serial Monitor (for debugging purposes only)
Serial.println(throttle);
}
```