<https://randomnerdtutorials.com/installing-the-esp32-board-in-arduino-ide-windows-instructions/>

Problem of no usbc converters for mac: decided to switch off testing on both computers

Followed steps 1-2 of guide, downloading arduino IDE

Having problems with hall sensor on Anand’s computer

* Hall sensor program will not upload onto esp32 from Anand’s computer
* Works correctly on Koray’s computer and could be programmed on Koray’s computer and then plugged into Anand’s computer and work fine. But when trying to upload from Anand’s computer, program did not print hall sensor values.
* One of the esp32’s eventually worked on Anand’s computer and both worked on Koray’s so we just decided to have Anand use the one that worked on his

Probably the simplest thing to do, but not always simple to interpret, is to run dmesg after inserting the device.

**Arduino Code (to send serial data):**

int hall\_sensor\_value = 0;

void setup()

{

Serial.begin(9600); // It defines the baud rate of 9600 bits per second to serial monitor

}

void loop()

{

hall\_sensor\_value = hallRead();

Serial.print("Hall sensor value = ");

Serial.println(hall\_sensor\_value);

delay(500);

}

**Python code (to receive serial data):**

import serial

ser=serial.Serial('/dev/ttyUSB0',9600)

while True:

readedText = ser.readline()

print(readedText)

ser.close()

https://github.com/kakduman/cs334/blob/master/arduino%20literally%20just%20read%20everything

**Arduino Code (to send joystick data):**

#define VRY\_PIN 0 // ESP32 pin GPIO39 (ADC0) connected to VRY pin

int valueY = 0; // to store the Y-axis value

void setup() {

Serial.begin(9600) ;

}

void loop() {

valueY = analogRead(0);

// print data to Serial Monitor on Arduino IDE

Serial.println(valueY);

}

Note: \*\*Anand’s upload only working when no wire plugged into 3.3 or 5v pins of esp32