Install and Configure Arduino Software for MAC OS

Step 1– Install the driver

- Click this instant URL to download directly from here: https://www.silabs.com/documents/public/software/Mac_OSX_VCP_Driver.zip . For your information, click here for the website that contains the above download link.
- The file is normally located in your Downloads directory. Double click on the Mac_OSC_VCP_Driver.zip [Figure 1 (Step 1)]. You should be able to see the newly created Mac_OSX_VCP_Driver . Expand the folder and double click on the .dmg file [Figure 1 (Step 2)] and install it like your normally install a Mac software.

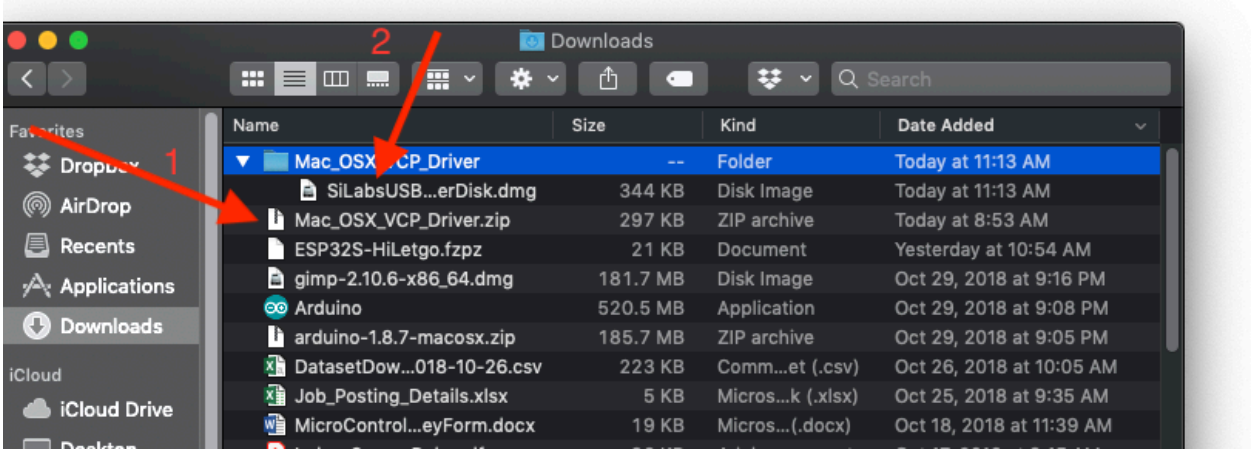

Figure 1

- Once you finish installing it, you need to give it permission to run on your system. Hit the Apple icon on the top left of your screen, and go to System Preferences -> Security & Privacy . You should see that SiLab software is asking for the permission, click Allows and hit the Lock image at the bottom left of the Security & Privacy windows.

Step 2— Download and install the Arduino software

- Visit https://www.arduino.cc/en/Main/Software and download the MacOS X version of the Arduino software installer.
- Install the software per the instructions at https://www.arduino.cc/en/Guide/MacOSX. Skip the last section of the installation instructions, i.e. the “Proceed with board specific instructions” portion.

Step 3— Configure the Arduino Software

- Add the necessary libraries (libraries are like “drivers”) to let the Arduino software know how to communicate with the ESP32 microcontroller and components we will be using.

- To add support for the ESP32 microcontroller, click on Arduino -> Preferences [Figure 2]

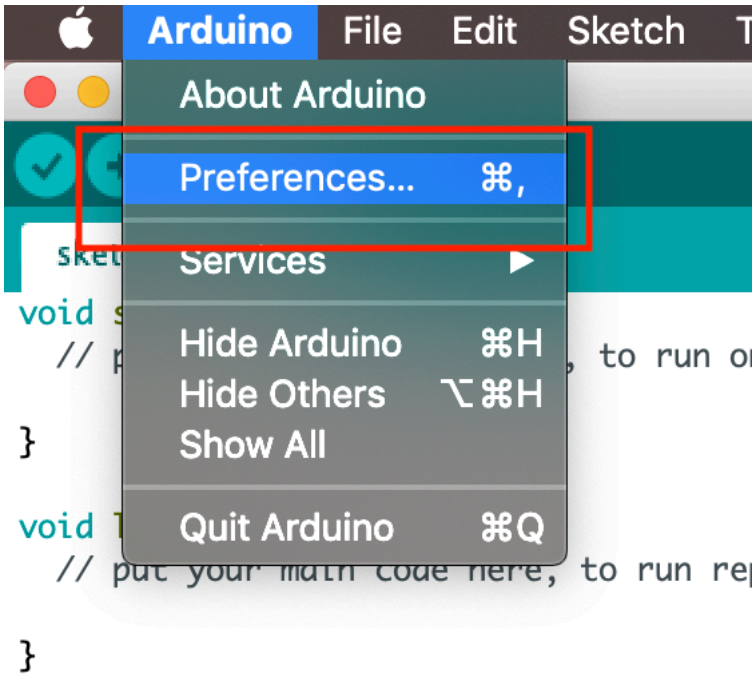

Figure 2

- Paste **https://dl.espressif.com/dl/package_esp32_index.json** into the blank space next to “Additional Boards Manager URLs:" then click “OK” to return to the main Arduino software windows [Figure 3].

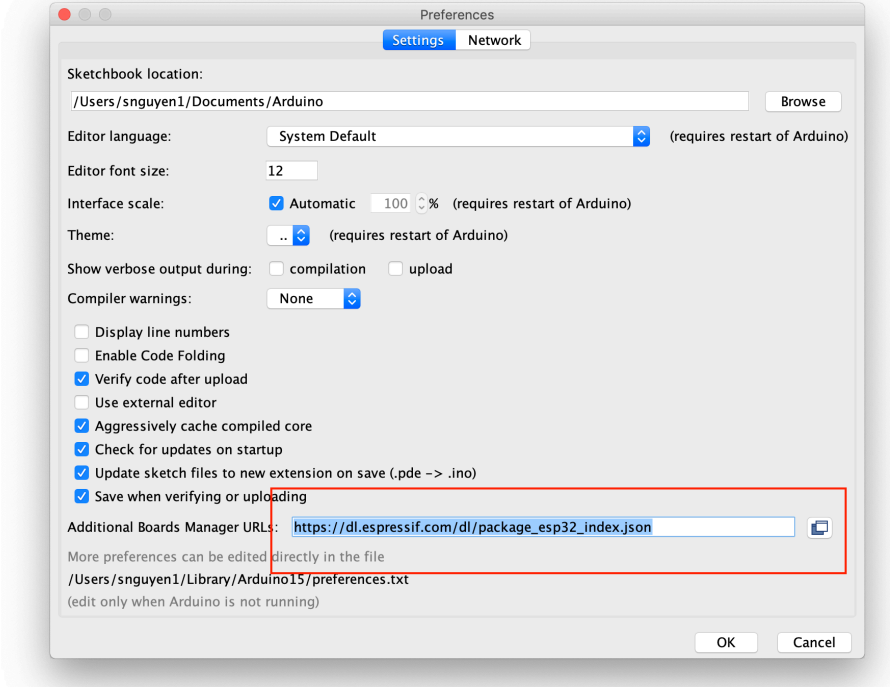

Figure 3

- Click on Tools -> Board: "Arduino/Genuino Uno" -> Boards Manager…. [Figure 4]

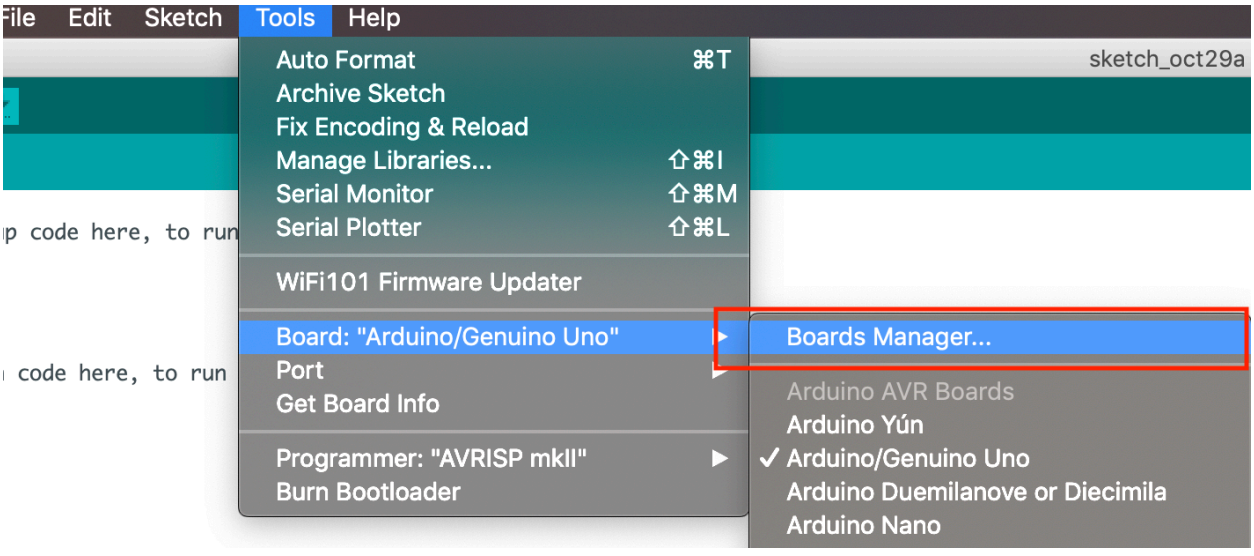

Figure 4

- Type **esp32** into the filter at the top of the Boards Manager dialog, and you should see an “esp32 by Espressif Systems” option appear. Click on its “Install” button, and let the process run to completion. This will take several minutes to finish. Click the "Close" button once the install is completed. [Figure 5]

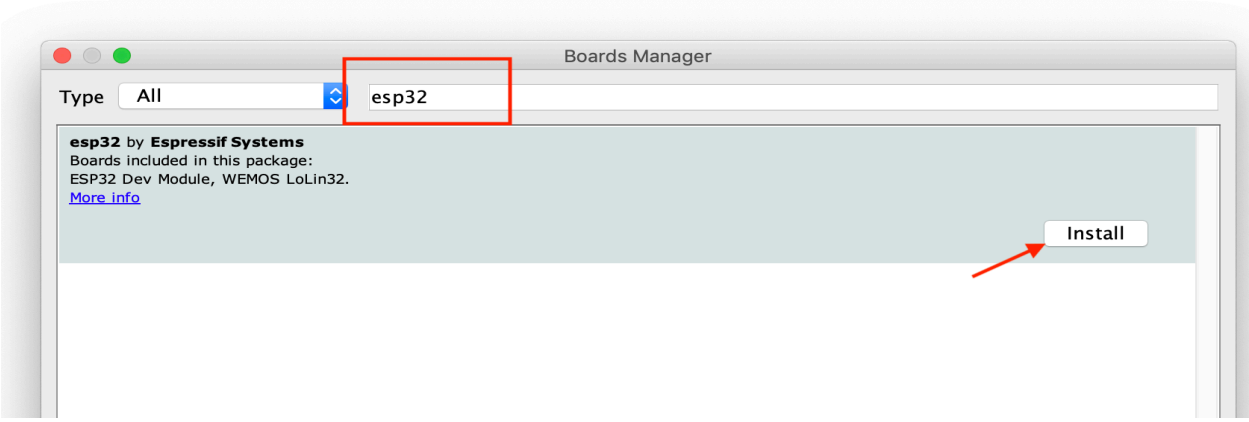

Figure 5

- To add support for the various components we will be using, click on Tools -> Manage Libraries… [Figure 6 (step 1]

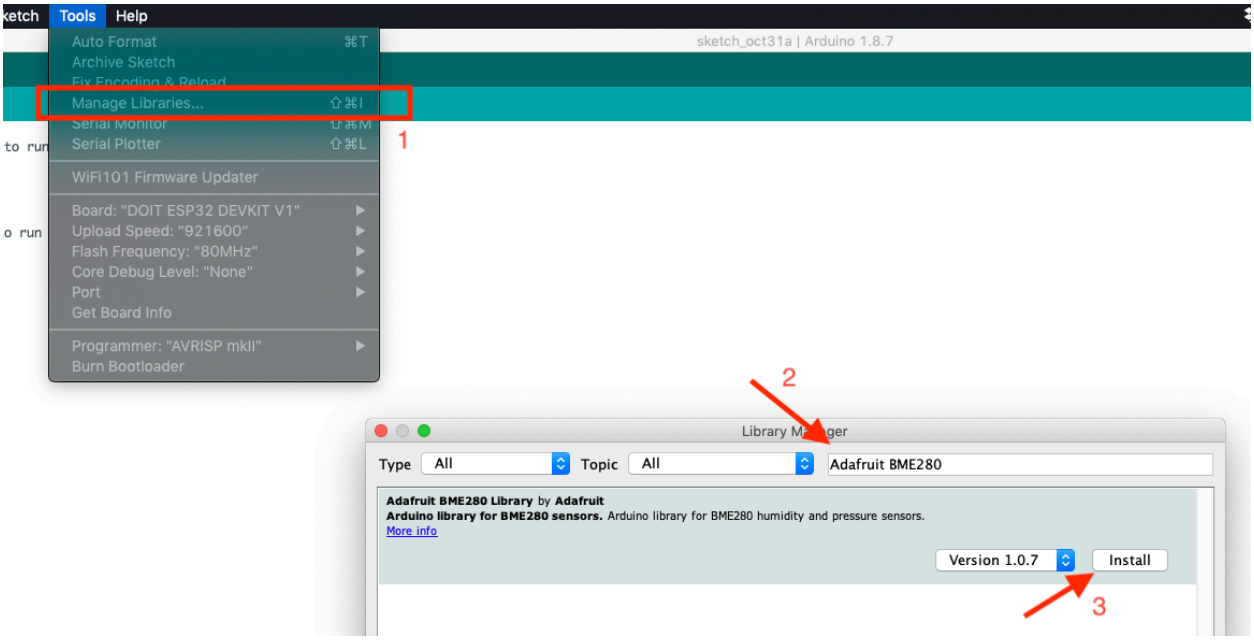

Figure 6

- Type **Adafruit BME280** into the filter at the top of the Library Manager dialog, click on the only (or first) item in the list [Figure 6 (Step 2,3)].
- On the same Library Manager window, Install **Adafruit SSD1306 by Adafruit** [Figure 7].

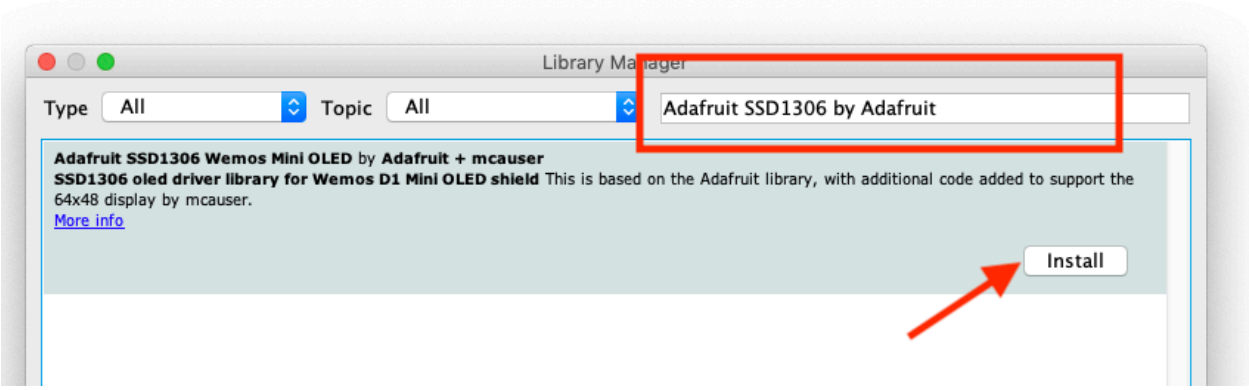

Figure 7

- Same thing, install **Adafruit Unified Sensor by Adafruit** library [Figure 8].

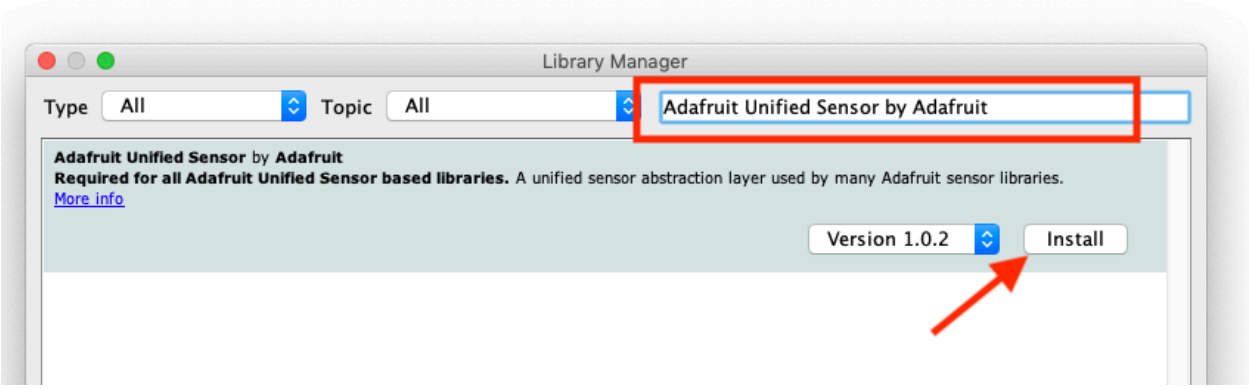

Figure 8

- Again, typing r**tclib** in the filter box, find & install **RTClib by Adafruit** library [Figure 8].

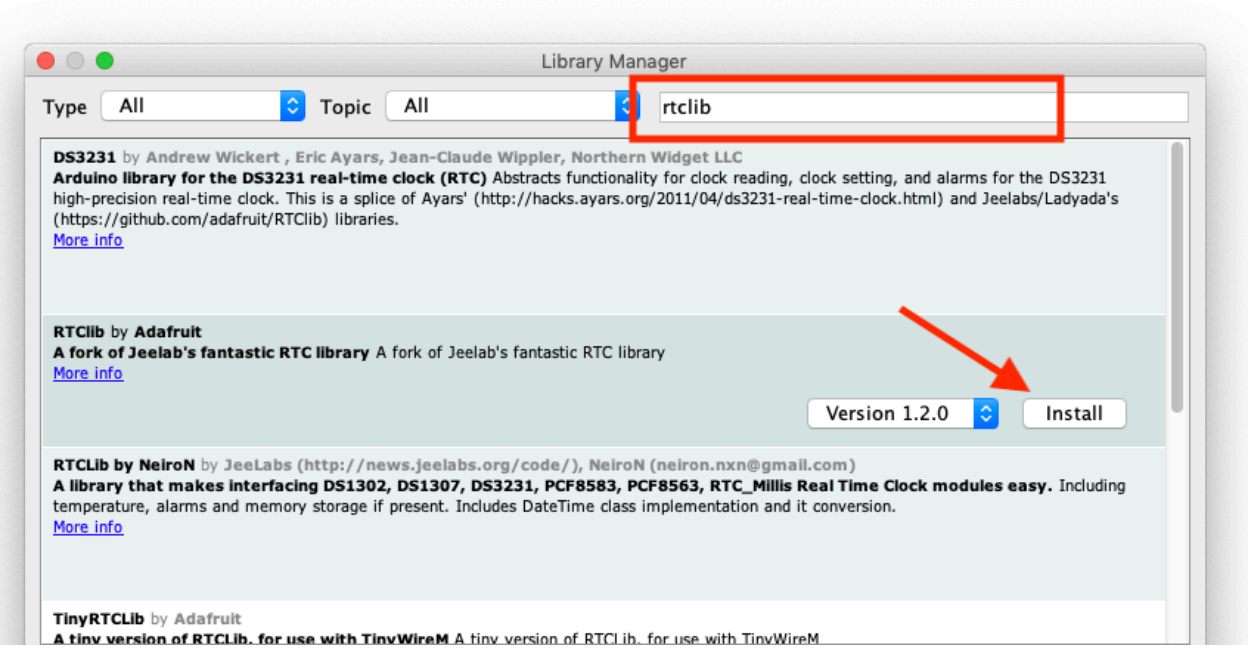

Figure 9

- Click the “Close” button to return to the main Arduino software window.

Congratulations!!!!

You just finished the most difficult part. Give yourself a cookie!!!