

E-Ra WORKSHOP - TOPIC 2

HƯỚNG DẪN CÀI ĐẶT PHẦN MỀM

Cấu hình tối thiểu:

- Windows: 64bit, Windows 7 trở lên
- MacOS: Từ 10.10 trở lên
- Linux: 64bit

1) Cài driver:

- USB CP210x:
 - Windows:
https://www.silabs.com/documents/public/software/CP210x_Windows_Drivers.zip
 - MacOS:
https://www.silabs.com/documents/public/software/Mac_OSX_VCP_Driver.zip
- USB STM32: Windows: [en.stsw-link009.zip](#)

2) Arduino IDE

- Windows: <https://downloads.arduino.cc/arduino-1.8.13-windows.zip>
- MacOS:
 - Chip-intel:
<https://downloads.arduino.cc/arduino-1.8.13-macosx.zip>
 - Chip-apple:
https://downloads.arduino.cc/arduino-ide/arduino-ide_2.0.3_macOS_ARM64.dmg

- **Linux:** <https://downloads.arduino.cc/arduino-1.8.14-linux64.tar.xz>

- **Hướng dẫn cài đặt:**

B1: Giải nén

B2: Bấm vào khoảng trống trong folder -> Bấm chuột phải -> open Terminal

B3: sudo sh install.sh

```
sudo sh install.sh
```

- **Cài đặt thư viện pyserial (nếu thiếu)**

```
pip3 install pyserial
```

- **Chưa cấp quyền: (nếu thiếu)**

B1: Open Terminal

B2: echo \$USER ⇔ (username)

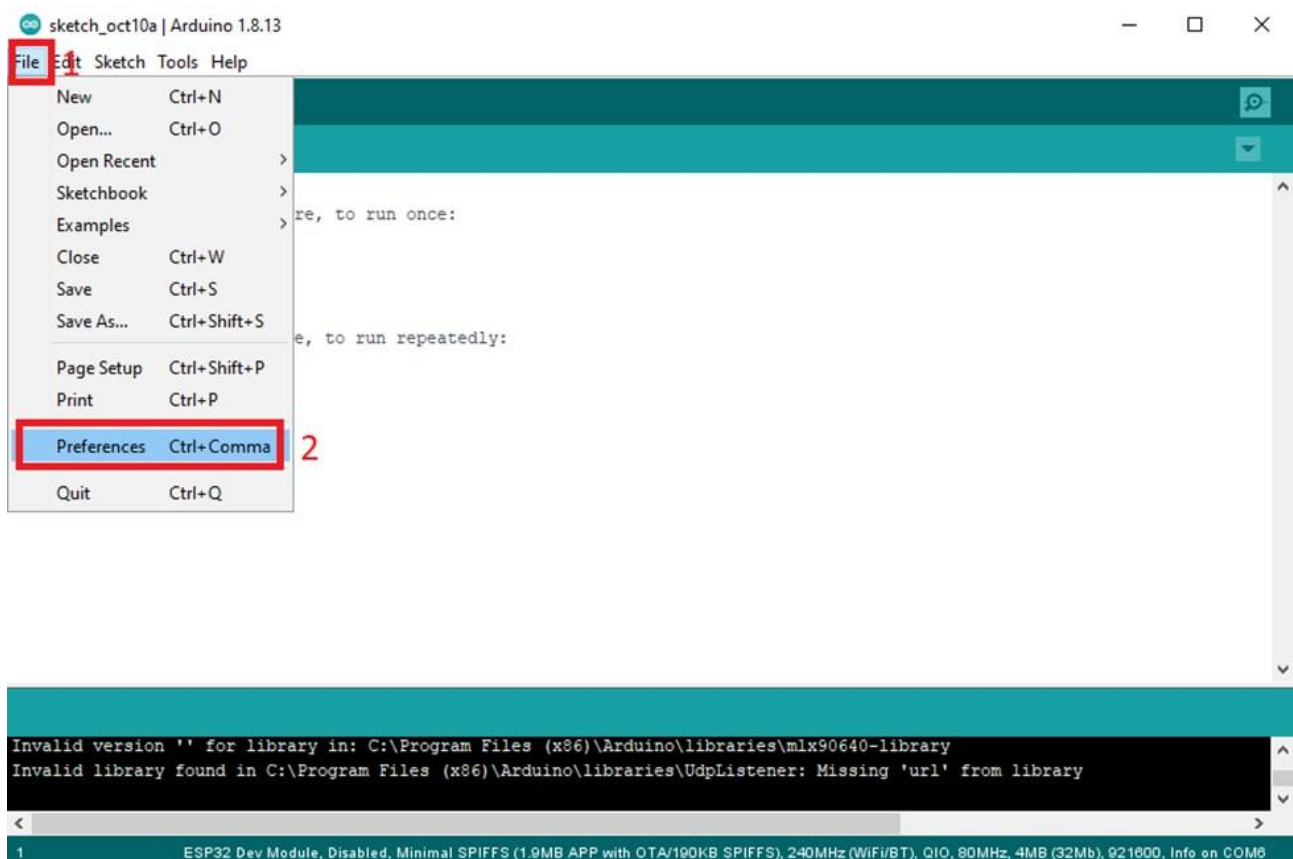
B3: cd /dev

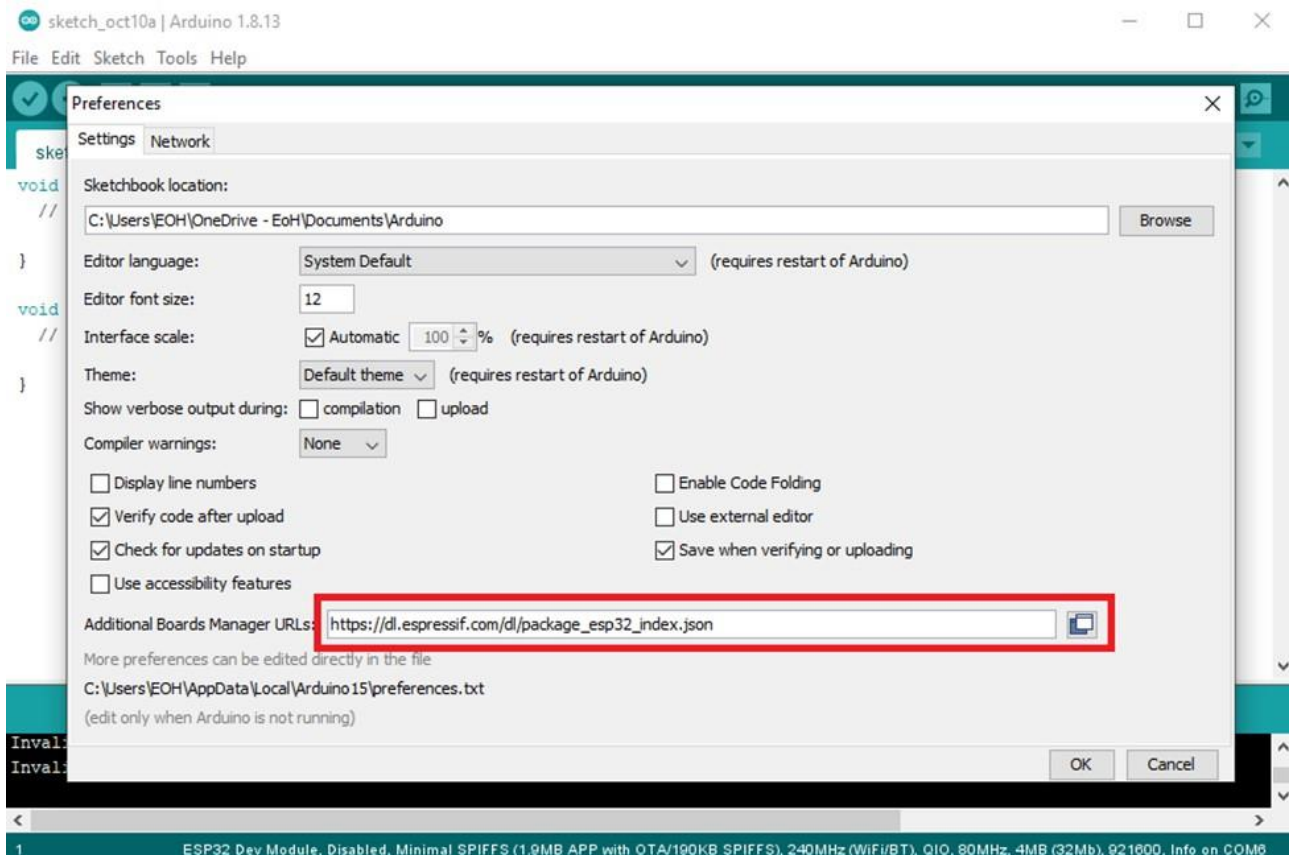
B4: sudo chown username ttyUSB0

```
echo $USER
```

```
PC1
```

3) Thêm Boards Manager ESP32 cho Arduino IDE





BOARD MANAGER URLs THAM KHẢO CHO TỪNG MODULE:

- **ESP32:**

https://github.com/espressif/arduino-esp32/raw/gh-pages/package_esp32_dev_index.json

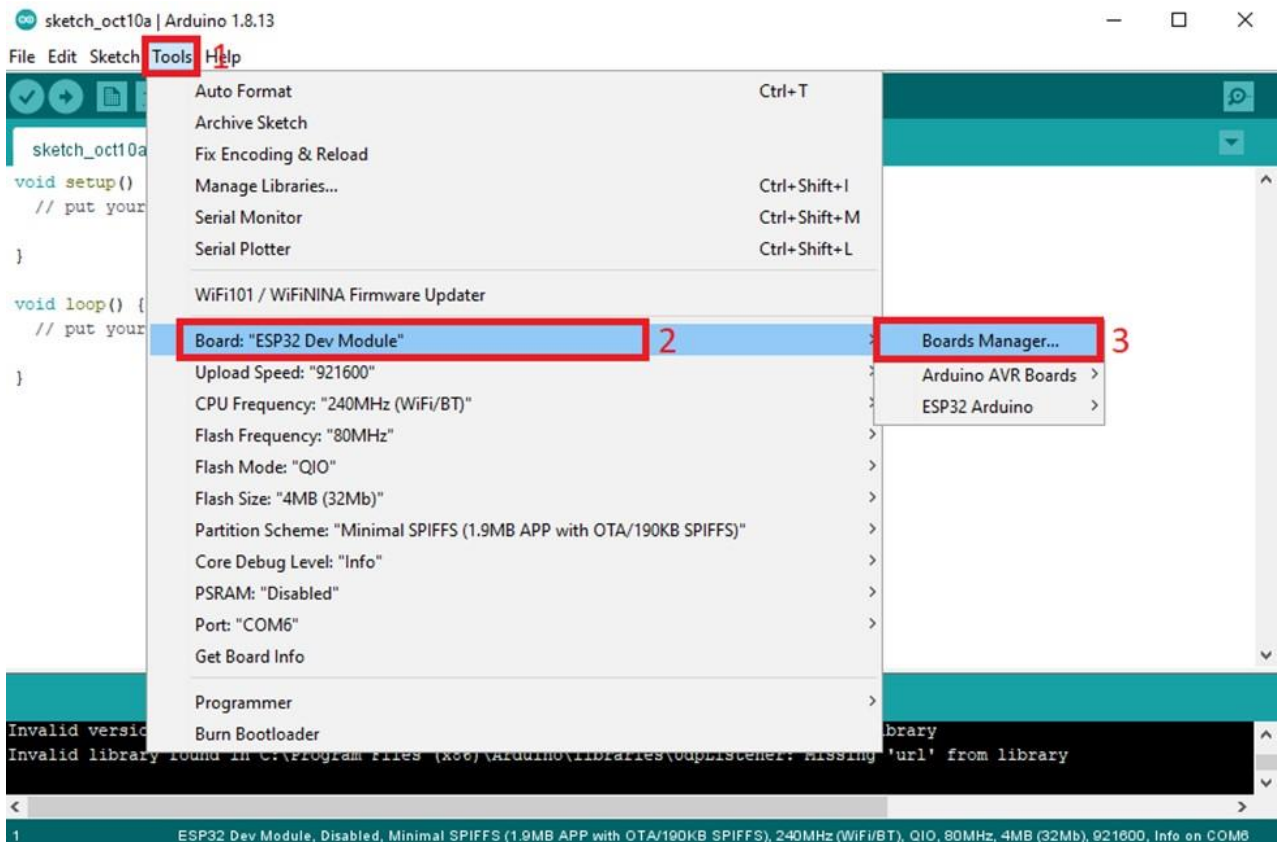
- **STM32:**

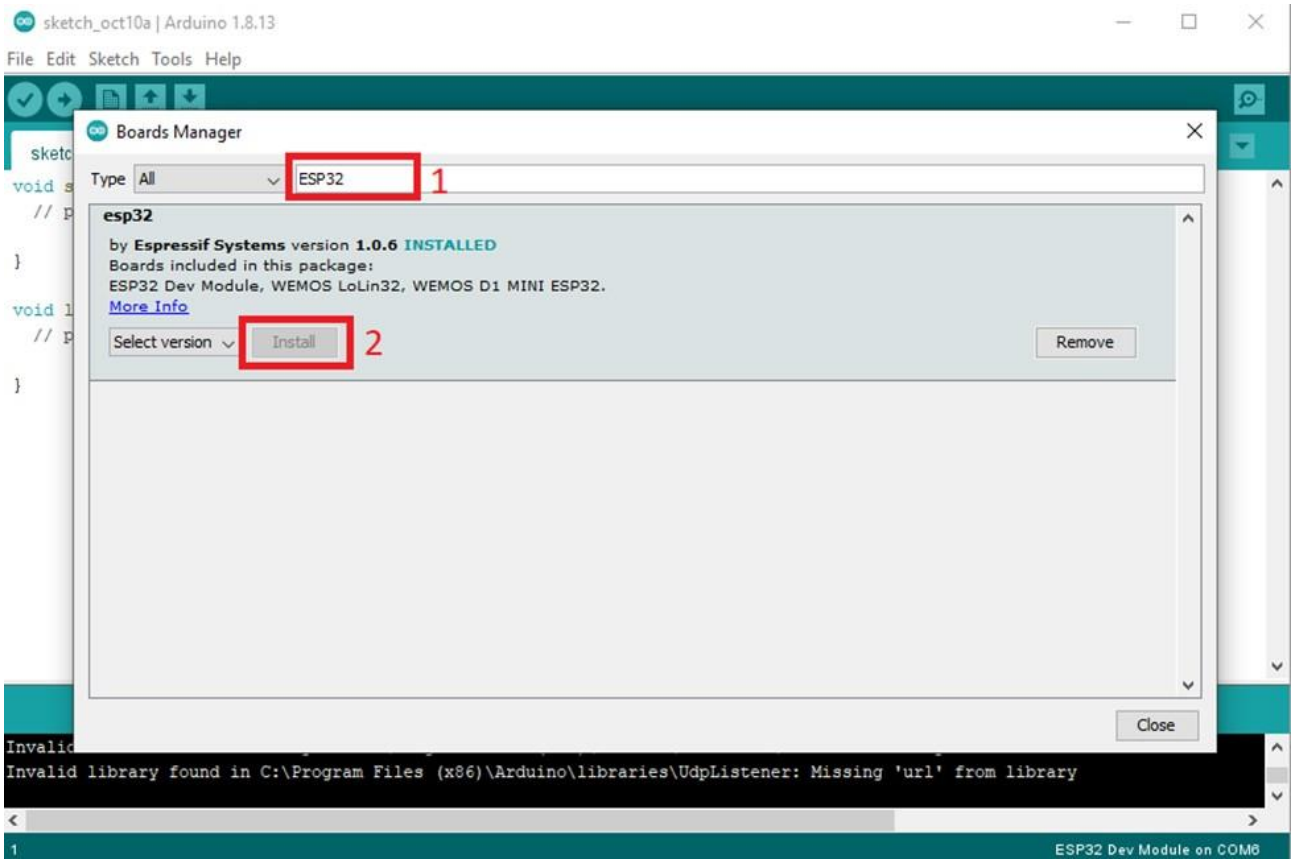
https://github.com/stm32duino/BoardManagerFiles/raw/main/package_stmicroelectronics_index.json

- **ESP8266:**

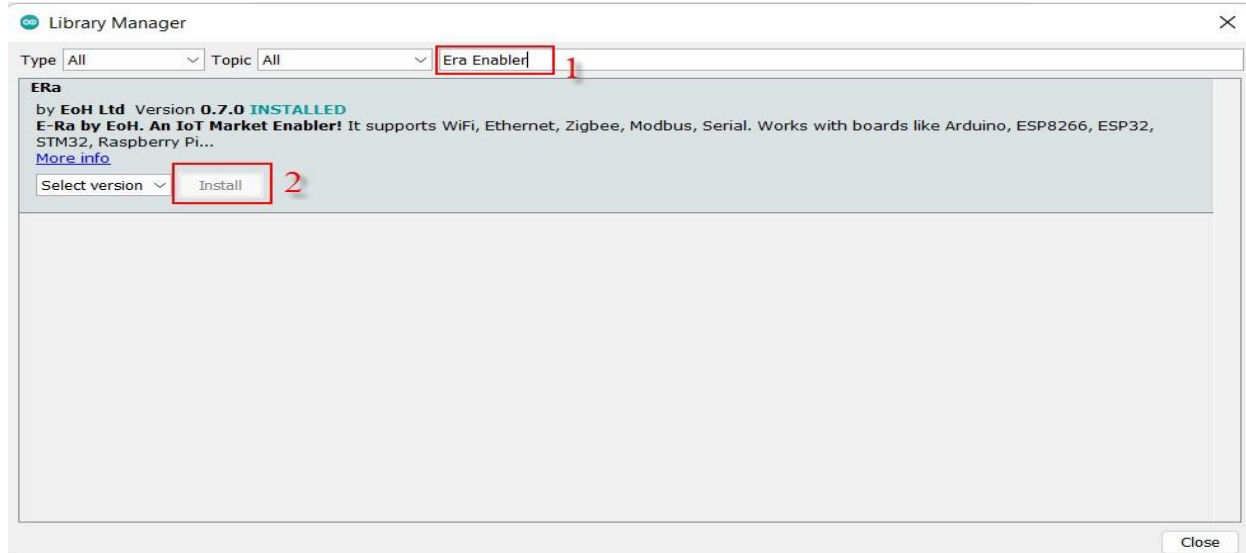
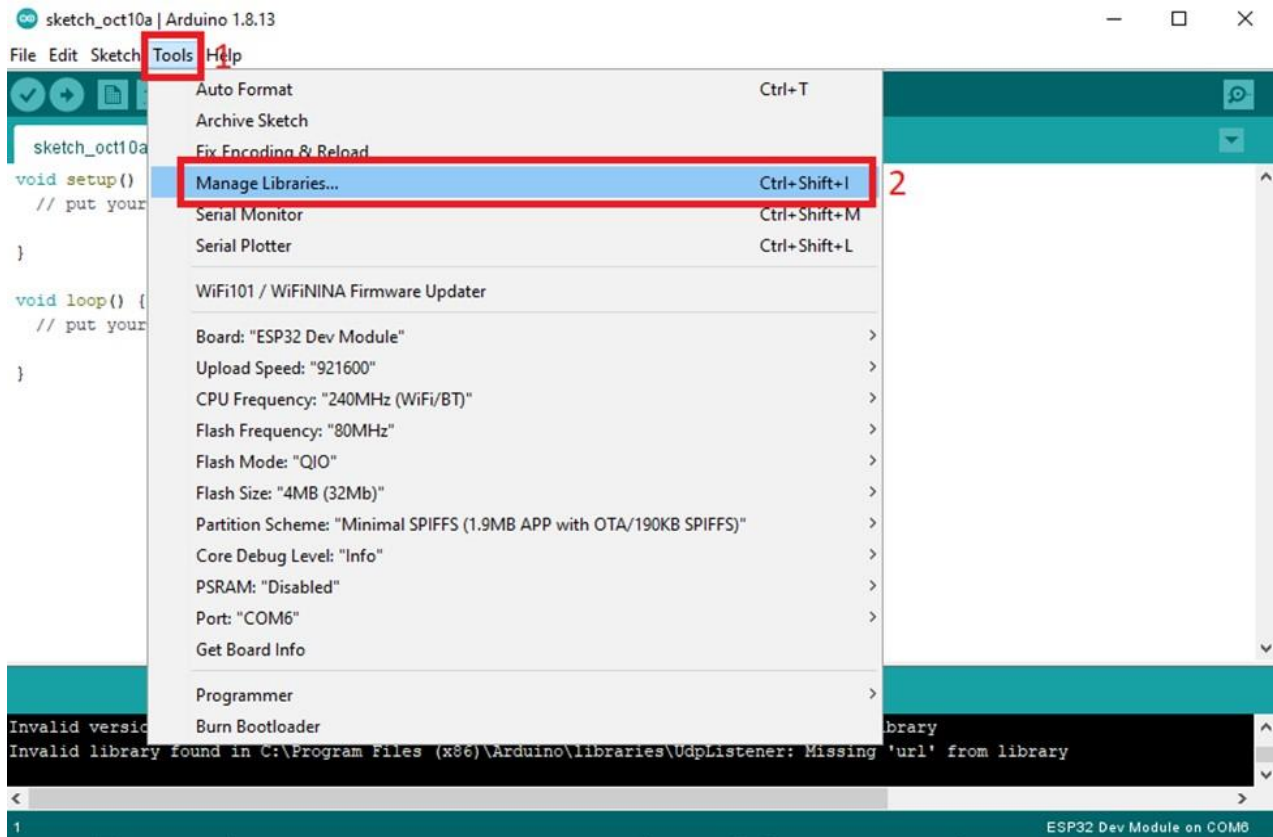
http://arduino.esp8266.com/stable/package_esp8266com_index.json

- Cài đặt board: (ESP32)





4) Thêm thư viện vào Arduino IDE



=> Xem chi tiết cài đặt ở: [ESP32, STM32, ESP 8266 - E-Ra IoT Platform Document \(gitbook.io\)](https://github.com/EoH-io/E-Ra-IoT-Platform-Doc)