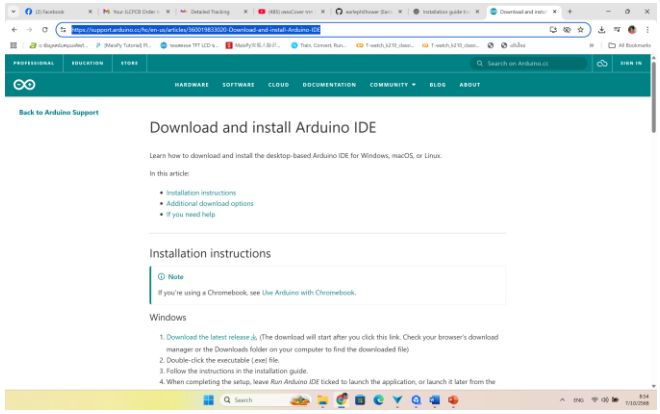
Installation Guide for Earle F. Philhower Arduino-Pico Package For MyMakers RP2350B on Arduino IDE 2.x

Introduction

This guide explains the importance of installing the Earle F. Philhower package to enable RP2040 / RP2350 boards to work seamlessly with Arduino IDE 2.x.

1. Preparing Arduino IDE 2.x

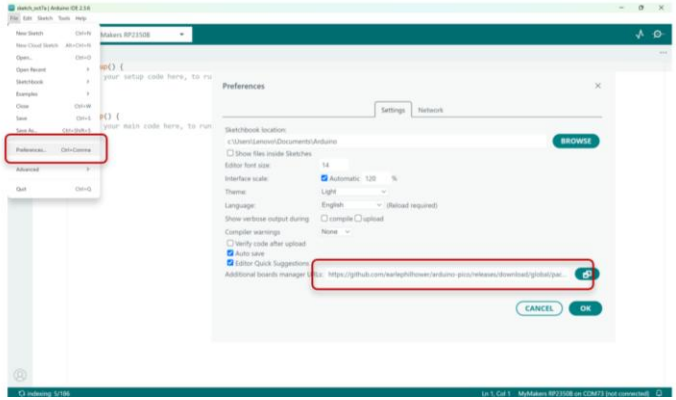
1. **Download and install Arduino IDE 2.x** from the official website.
2. **Open the program and verify the version.**



2. Adding Board Package URL

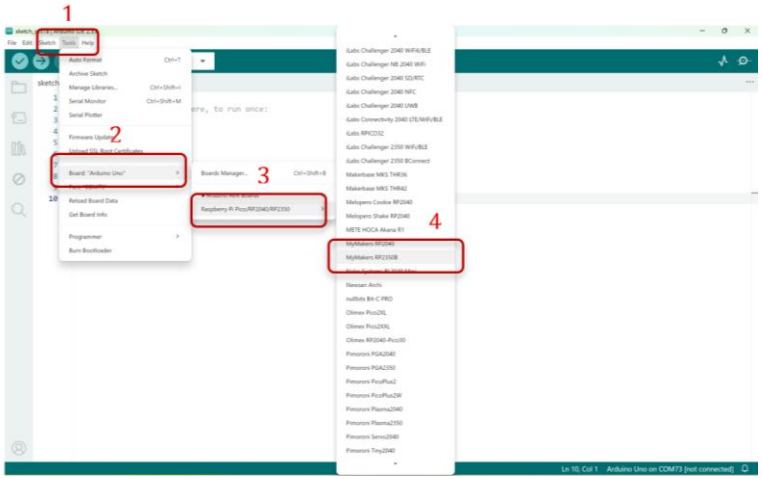
1. Go to **File > Preferences.**
2. In the **'Additional Boards Manager URLs'** field, enter:

   `https://github.com/earlephilhower/arduino-pico/releases/download/global/package_rp2040_index.json`



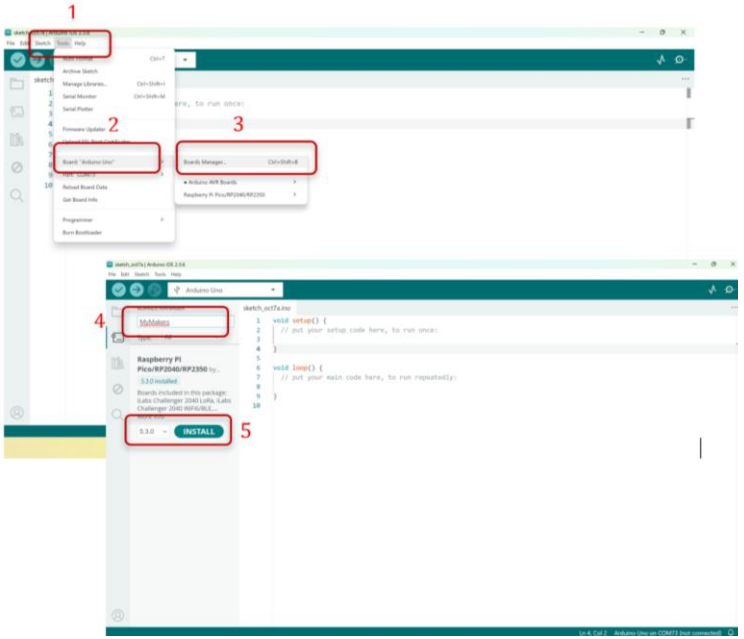
3. Selecting Board

1. Go to **Tools > Board > Raspberry Pi RP2040 Boards > MyMakers RP2350B.** ⚙️



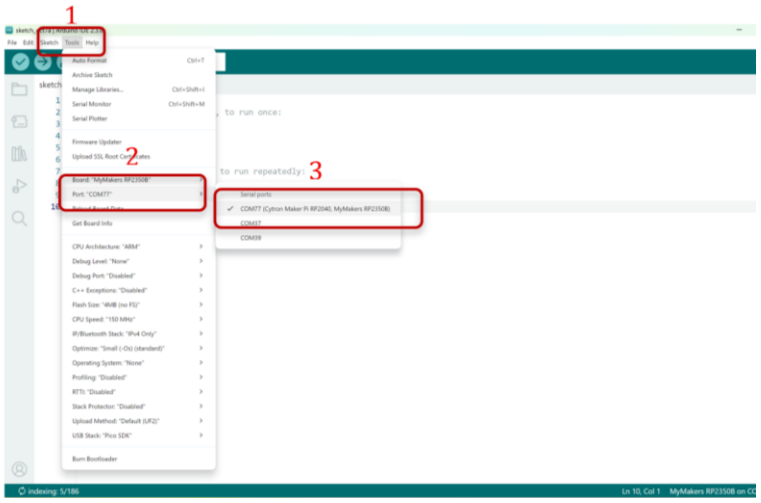
4. Installing **MyMakers RP2350B** Boards

1. Open **Tools > Board > Boards Manager.** ⬇️
2. Search for **'Raspberry Pi RP2040'.** 🔍
3. Click **Install.** ⬇️



5. Selecting Port

1. Go to **Tools > Port** and select the USB port connected to the board. ⚙️

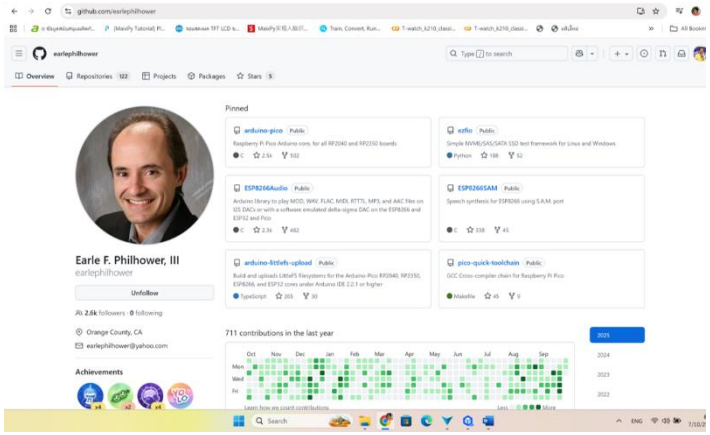


6. Testing Blink Program

1. Open **File > Examples > 01.Basics > Blink.** ⬇️
2. Click **Upload** to flash the program. ⬆️
3. Verify that the onboard LED blinks according to the example. ✅

Conclusion and Credits

Installation is complete. You can now start programming **MY RP-PRO V2.0** immediately. ✅ Special thanks to **Earle F. Philhower** for developing the Arduino-Pico package. 🙏



Installation Guide for MyRP-Pro V2.0 Robot Library

(Professional Technical Edition – Blue/Grey Theme)

Introduction

The MyRP-Pro V2.0 robot is designed and developed to help learners understand robot programming in a simple yet powerful way. Installing the library is an essential step that enables users to fully utilize the robot's functions efficiently and conveniently.

Importance of Installing the Library

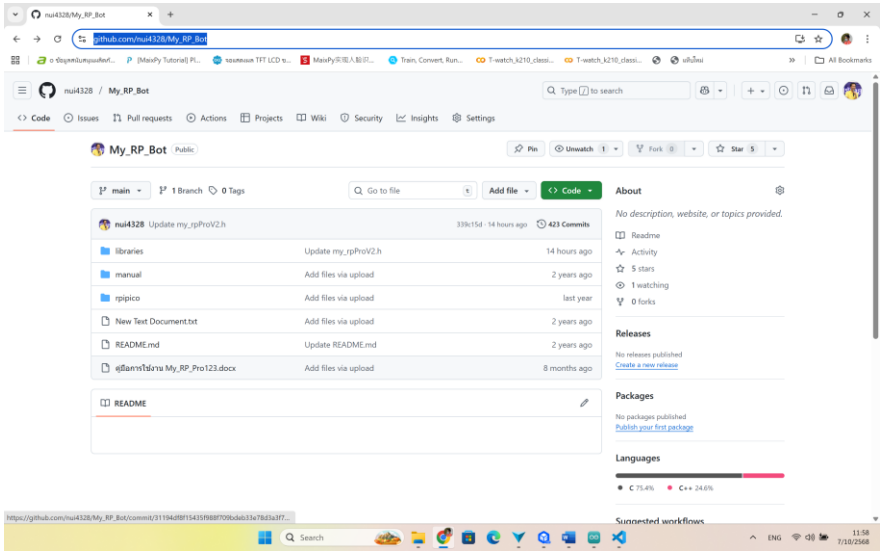
Installing the MyRP-Pro V2.0 library helps learners to:

- Write robot control programs more easily without starting from scratch.
- Reduce programming errors.
- Save development time.
- Use built-in functions such as motor control, sensor reading, PID control, and line following.
- Be suitable for both beginners and advanced competition-level users.

Library Installation Steps

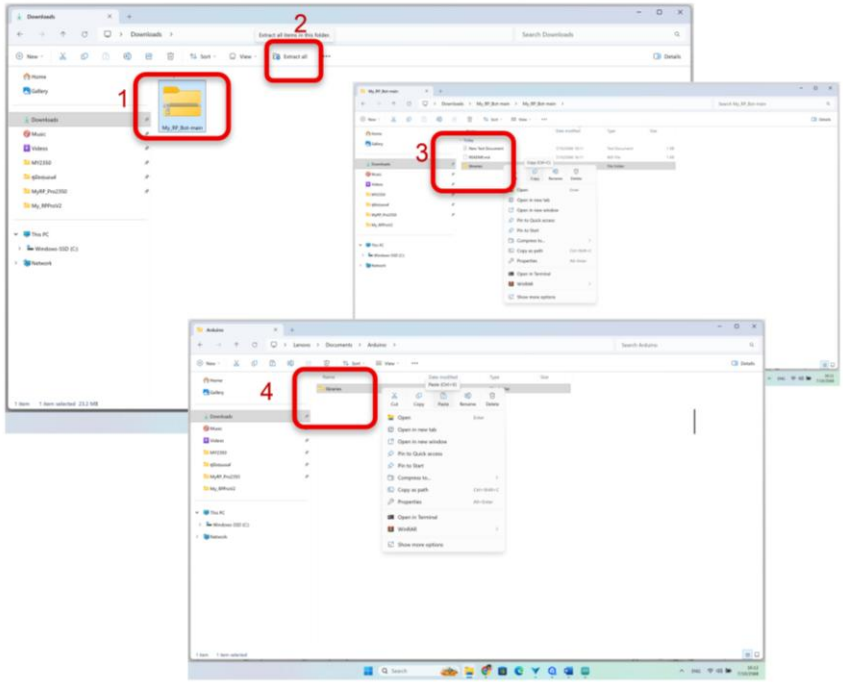
Step 1: Download the Library from GitHub

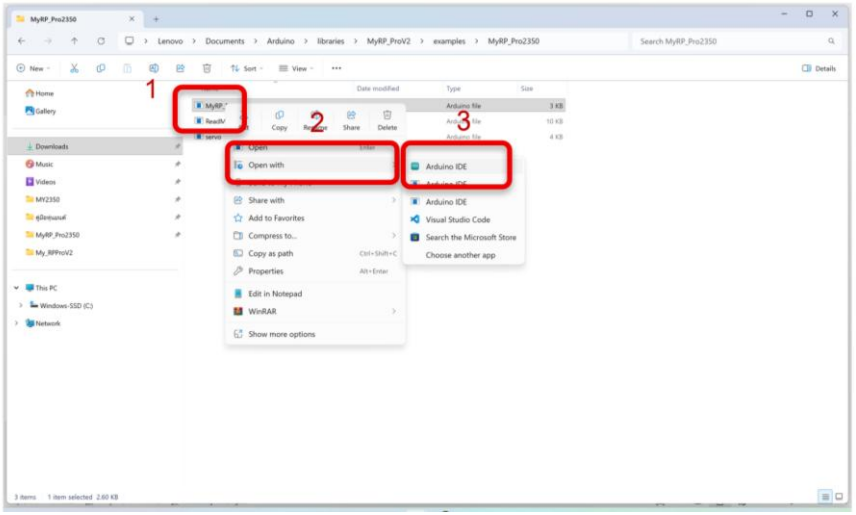
1. Open your web browser and go to: https://github.com/nui4328/My_RP_Bot
2. Click the **Code** button → choose **Download ZIP** to download the complete



Step 2: Extract and Copy the Library Folder

1. After downloading, right-click the file **My_RP_Bot-main.zip** → select **Extract All...**
2. Open the extracted folder.
3. Copy the folder named **libraries**.



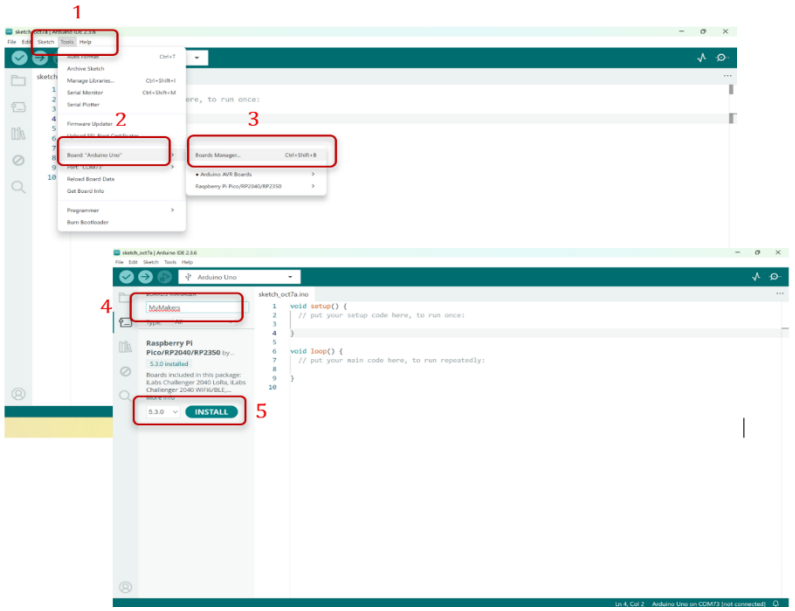


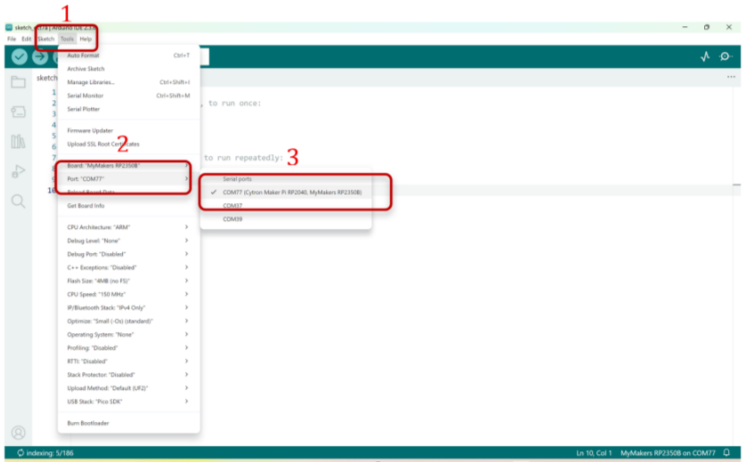
Step 3: Open the Example Code for MyRP-Pro V2.0

1. Navigate to the folder: C:\Users\<YourUserName>\Documents\Arduino\libraries\MyRP_ProV2\examples\MyRP_Pro2350
2. Choose any example file (e.g., **MyRP_Pro2350_LineFollow.ino**)

Step 4: Configure the Board and Port in Arduino IDE

1. Open **Arduino IDE**.
2. Go to **Tools > Board > MyMakers Boards > MyMakers RP2350B**.
3. Then go to **Tools > Port** and select the port connected to your board.





Step 5: Verify and Upload the Code

1. Click the **check mark icon (✓)** to **Verify** the code.
2. If no errors appear, click the **Upload icon (↑)** to upload the program to your board.
3. Save your file in a convenient location, such as:
   C:\Users\<YourUserName>\Desktop

Additional Tips

• If an error such as “library not found” appears, make sure the folder **MyRP_ProV2** is inside Documents\Arduino\libraries.
• Ensure that the selected board is **MyMakers RP2350B**.
• Use the **Serial Monitor (Ctrl + Shift + M)** to view data from the board.

Conclusion

Installing the MyRP-Pro V2.0 library is a fundamental but crucial step for operating the MyRP-Pro robot. After completing all the steps, learners can immediately use built-in functions such as controlling motors, reading sensors, applying PID control for line following, and many more advanced features.

- Prepared by:

MyMakers Robotics Education – Thailand (English Version)

(For MyRP-Pro V2.0 Robot Educational Kit)