

# Installation of software for RSLK workshop

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## INSTALLING THE DRIVERS FOR MSP432

1. Go to [github.com/thejjenkins/RSLK\\_Workshop](https://github.com/thejjenkins/RSLK_Workshop)

github.com/thejjenkins/RSLK\_Workshop/tree/main

thejjenkins / RSLK\_Workshop

Issues Pull requests Actions Projects Wiki Security Insights Settings

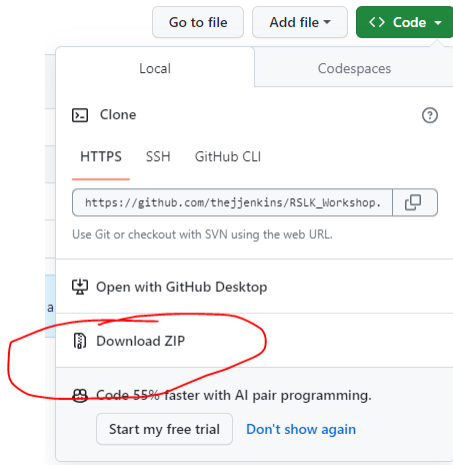
RSLK\_Workshop Public Pin Unwatch 1

main 1 branch 0 tags Go to file Add file > Code >

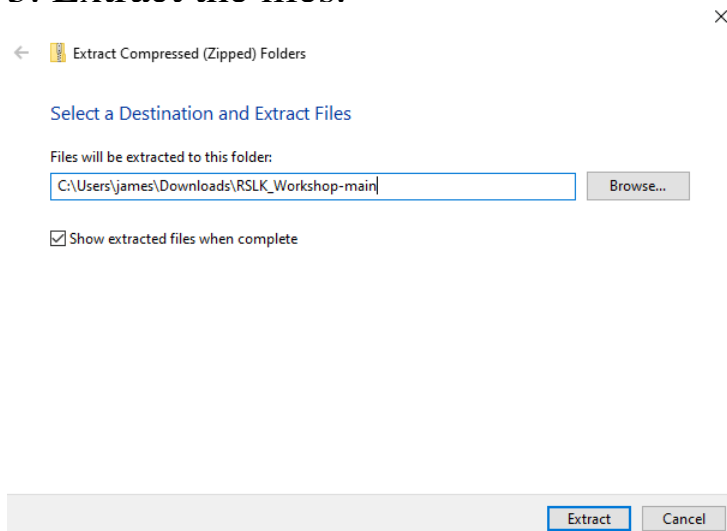
thejjenkins Add files via upload	b0094ed 1 minute ago 14 commits
IEEEUNT_RSLK_Workshop.pdf Add files via upload	1 hour ago
RSLK-Robot-Library.zip Add files via upload	1 hour ago
SIMPLELINK-MSP432-SDK Software ... Add files via upload	35 minutes ago
Software - Arduino.url Add files via upload	36 minutes ago
s3.amazonaws.com-energiaUS-packa... Add files via upload	1 minute ago

Help people interested in this repository understand your project by adding a README. Add a README

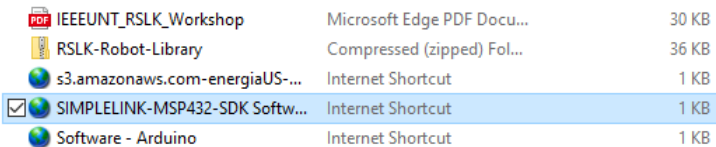
2. Click the green box “Code” and download the zip file.



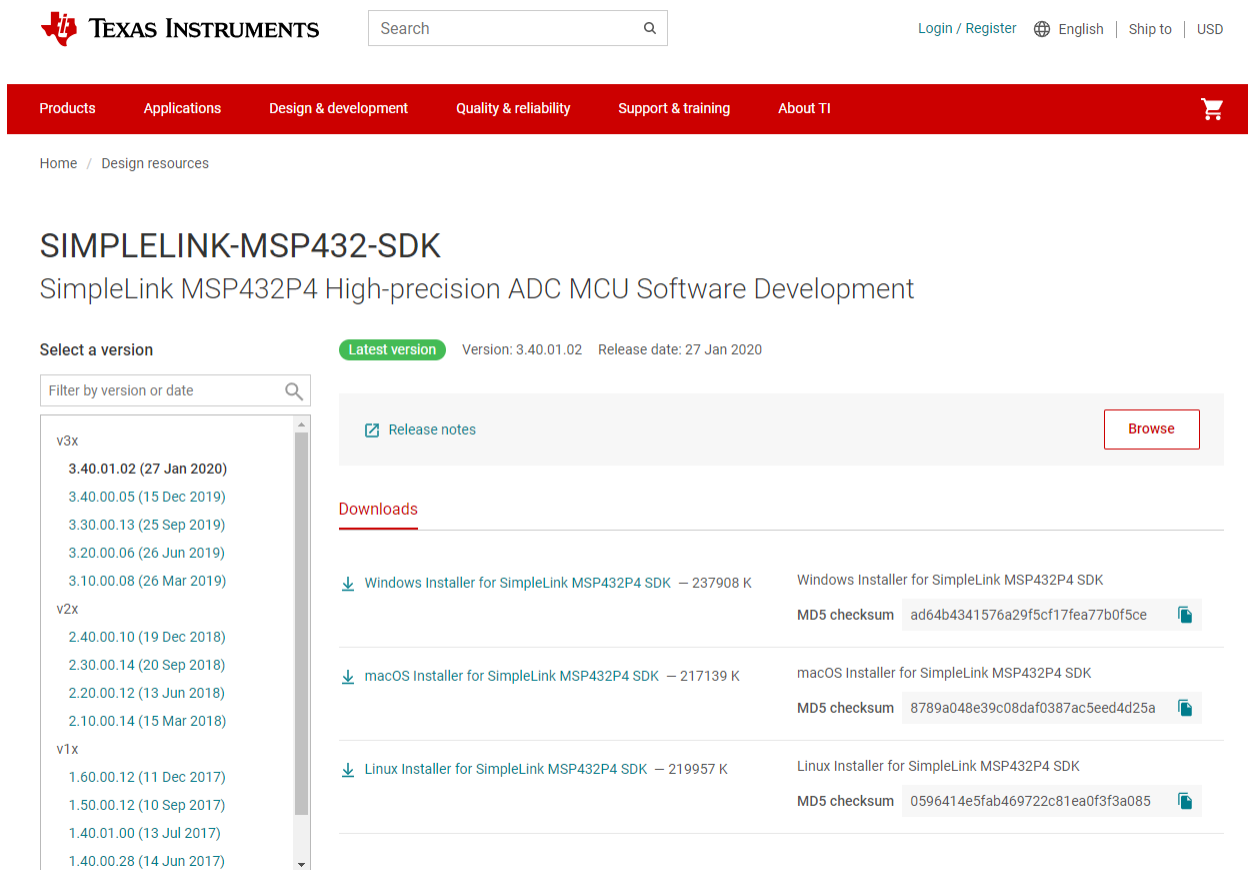
3. Extract the files.



4. Double click on the ”SIMPLELINK-MSP432-SDK” shortcut.



## 5. Download for your operating system.



The screenshot shows the Texas Instruments website interface. At the top, there is a navigation bar with links for Products, Applications, Design & development, Quality & reliability, Support & training, and About TI. Below this, the page title is "SIMPLELINK-MSP432-SDK" with the subtitle "SimpleLink MSP432P4 High-precision ADC MCU Software Development". A "Select a version" section displays a list of versions, with the latest version (3.40.01.02) highlighted. To the right, there are links for "Release notes" and "Browse". Below this, a "Downloads" section lists three installers: Windows, macOS, and Linux. Each installer entry includes a download link, the file size, and the MD5 checksum.

**SimpleLink-MSP432-SDK**  
SimpleLink MSP432P4 High-precision ADC MCU Software Development

Select a version

Filter by version or date

- v3x
  - 3.40.01.02 (27 Jan 2020)
  - 3.40.00.05 (15 Dec 2019)
  - 3.30.00.13 (25 Sep 2019)
  - 3.20.00.06 (26 Jun 2019)
  - 3.10.00.08 (26 Mar 2019)
- v2x
  - 2.40.00.10 (19 Dec 2018)
  - 2.30.00.14 (20 Sep 2018)
  - 2.20.00.12 (13 Jun 2018)
  - 2.10.00.14 (15 Mar 2018)
- v1x
  - 1.60.00.12 (11 Dec 2017)
  - 1.50.00.12 (10 Sep 2017)
  - 1.40.01.00 (13 Jul 2017)
  - 1.40.00.28 (14 Jun 2017)

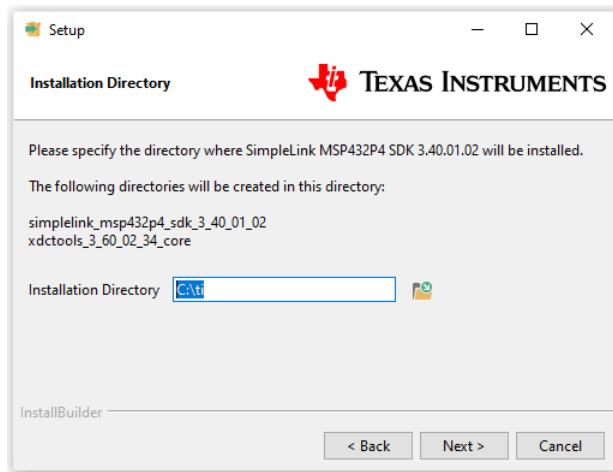
Latest version Version: 3.40.01.02 Release date: 27 Jan 2020

Release notes Browse

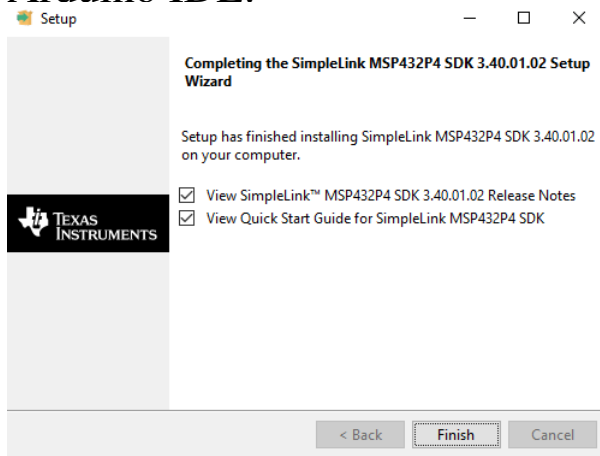
**Downloads**

Operating System	File Size	MD5 Checksum
Windows Installer for SimpleLink MSP432P4 SDK	237908 K	ad64b4341576a29f5cf17fea77b0f5ce
macOS Installer for SimpleLink MSP432P4 SDK	217139 K	8789a048e39c08daf0387ac5eed4d25a
Linux Installer for SimpleLink MSP432P4 SDK	219957 K	0596414e5fab469722c81ea0f3f3a085

## 6. Click next on the default directory. Click next to start the download.








7. If you like reading documentation feel free to view the release notes and quick start guide. Otherwise we will move to installing the Arduino IDE.



# INSTALLING ARDUINO

## 1. Double click on “Software - Arduino”.

	IEEEUNT_RSLK_Workshop	Microsoft Edge PDF Docu...	30 KB
	RSLK-Robot-Library	Compressed (zipped) Fol...	36 KB
	s3.amazonaws.com-energiaUS-...	Internet Shortcut	1 KB
	SIMPLELINK-MSP432-SDK Softw...	Internet Shortcut	1 KB
<input checked="" type="checkbox"/> 	Software - Arduino	Internet Shortcut	1 KB

## 2. Download for your operating system.

### Downloads



### Arduino IDE 2.2.1

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger.

For more details, please refer to the [Arduino IDE 2.0 documentation](#).

Nightly builds with the latest bugfixes are available through the section below.

**SOURCE CODE**

The Arduino IDE 2.0 is open source and its source code is hosted on [GitHub](#).

#### DOWNLOAD OPTIONS

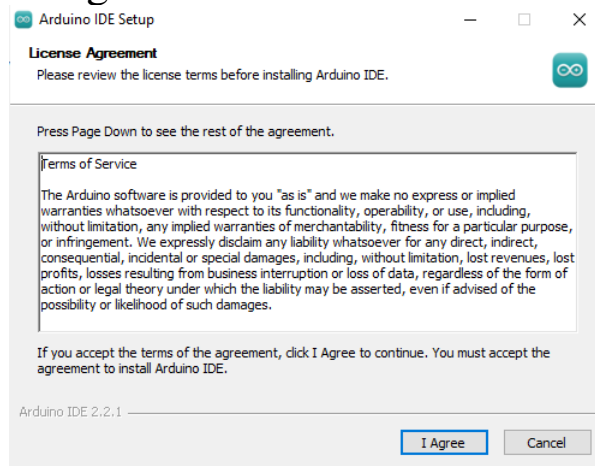
**Windows** Win 10 and newer, 64 bits  
**Windows** MSI installer  
**Windows** ZIP file

**Linux** AppImage 64 bits (X86-64)  
**Linux** ZIP file 64 bits (X86-64)

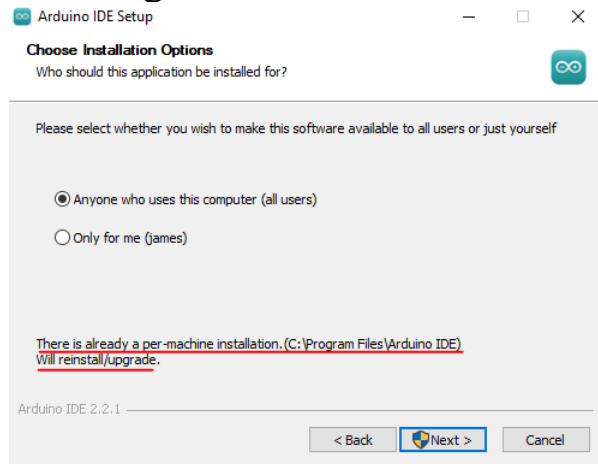
**macOS** Intel, 10.14: "Mojave" or newer, 64 bits  
**macOS** Apple Silicon, 11: "Big Sur" or newer, 64 bits

[Release Notes](#)

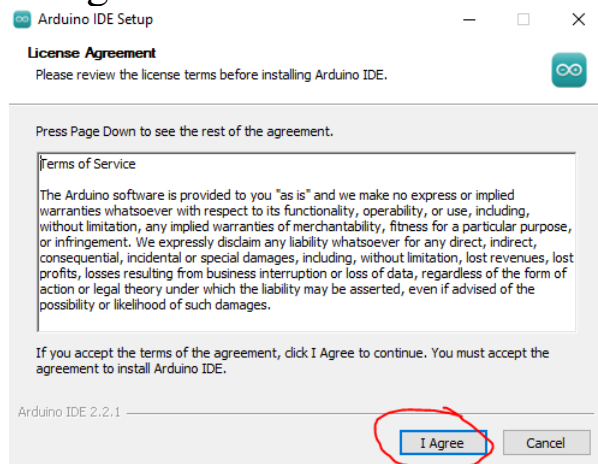
## 3. Agree.



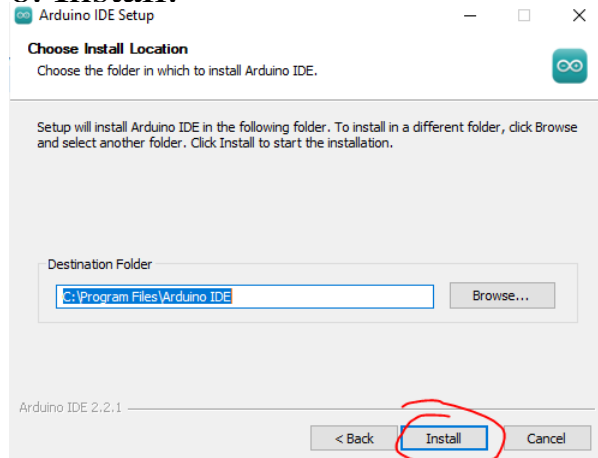
4. Pick whichever option. Since I have the Arduino IDE the installer is telling me that it will re-install.



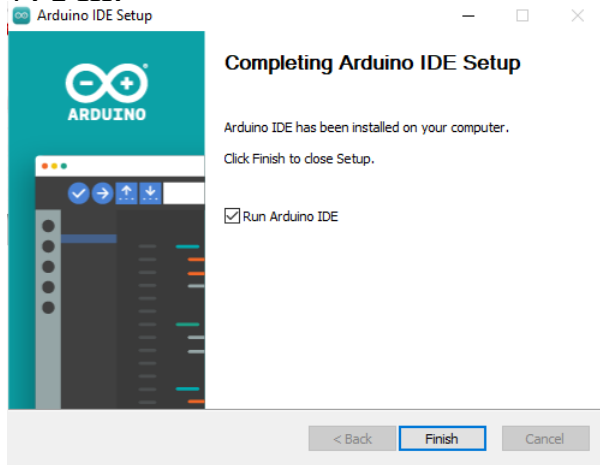
5. Agree.



6. Install.

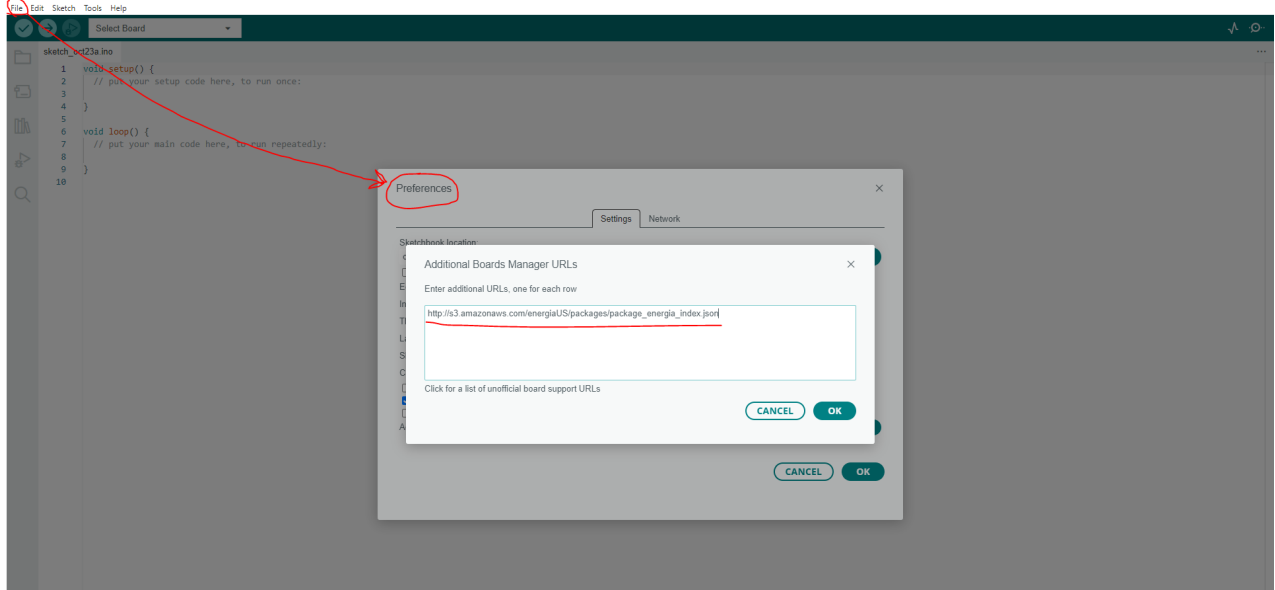


## 7. Fin.

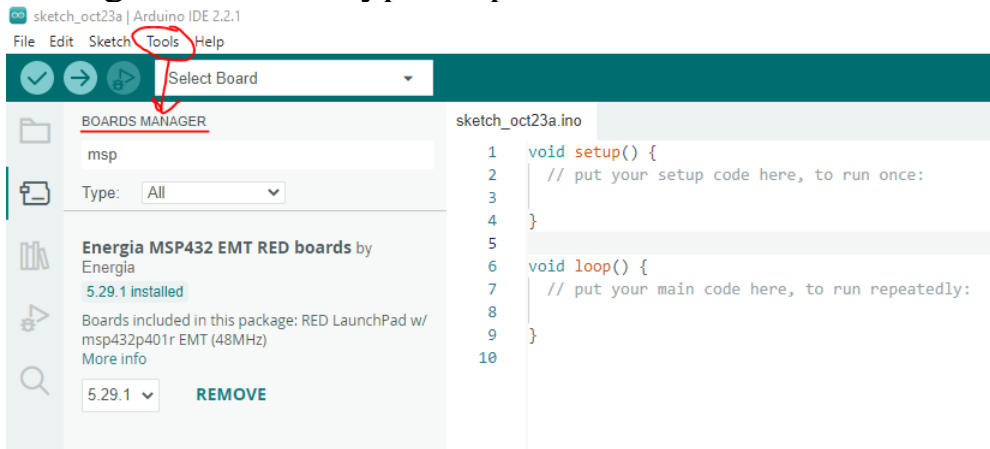


# CONFIGURING THE ARDUINO IDE

1. Add the amazon URL to the Arduino IDE by clicking file -> preferences -> additional boards manager URLs. [1]

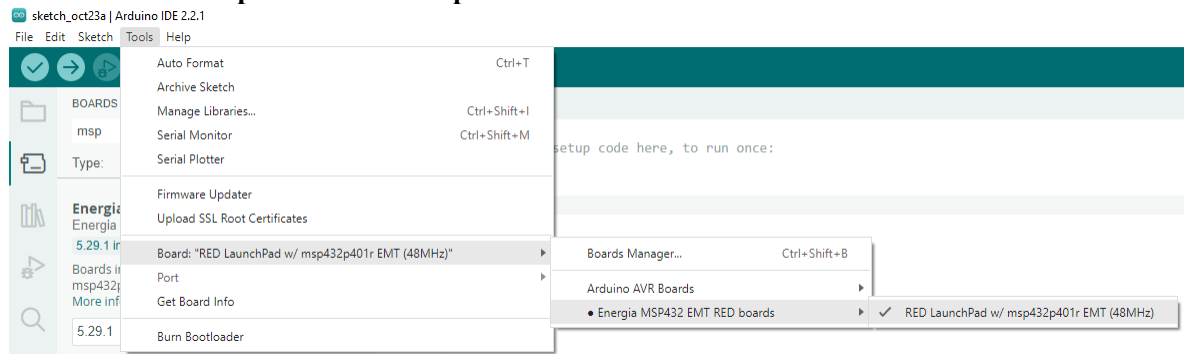


2. Download the MSP432 library by clicking tools -> Board -> Boards manager, and then type msp432 into the search bar.

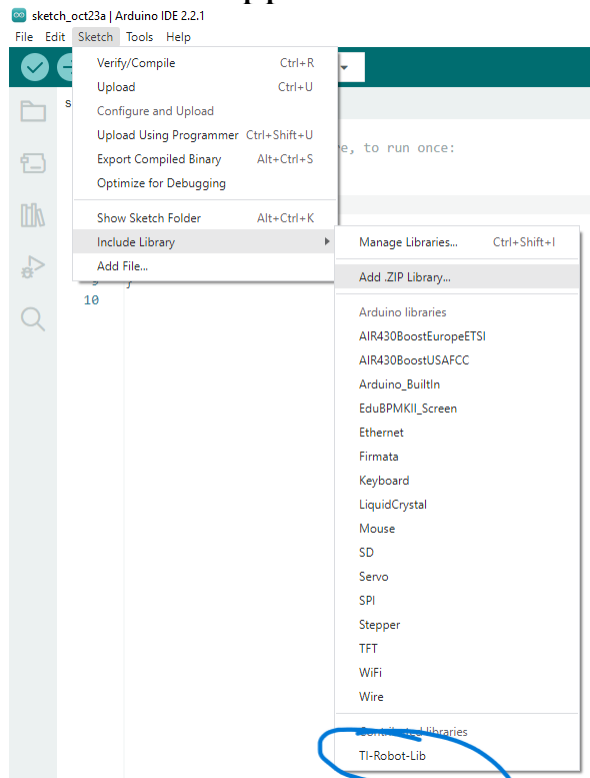




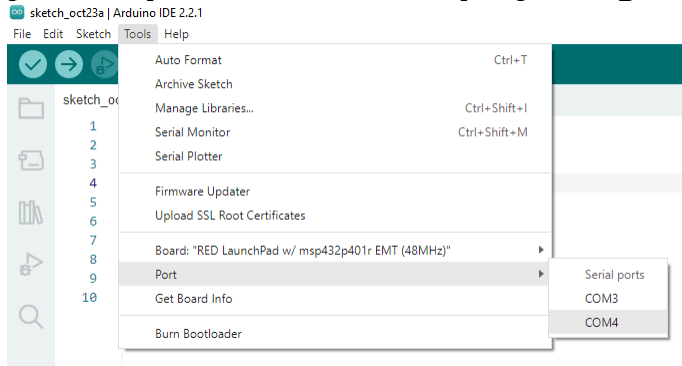
3. When the download completes select the board from the same menu as the previous step.



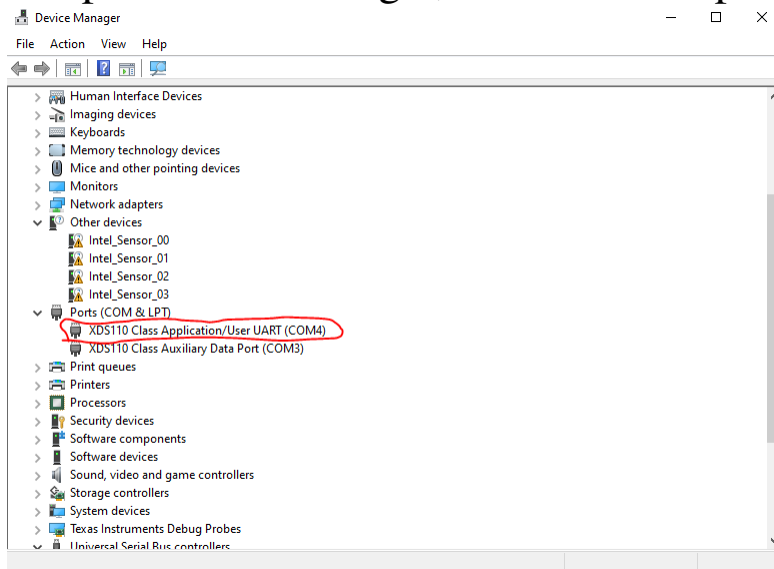
4. Add the zipped RSLK Robot Library folder to Arduino.



5. Select the correct COM port from tools -> port. Mac users should see port 001 and 004; select port 001. Windows users can verify which port they need to select by opening device manager.



6. Open device manager, scroll down to ports, and find XDS110 UART.



7. Everything is installed and ready to go. Feel free to explore the source code, header files, and example codes to see what they look like. See you there!

## REFERENCES

- [1] M. Easley, "Robotics system workshop: Arduino programming on ti-rslk max," Available at <https://www.hackster.io/measley2/robotics-system-workshop-arduino-programming-on-ti-rslk-max-d33faa> (2023/10/17).