Installation of software for RSLK workshop

TABLE OF CONTENTS:

1) Installing the drivers for MSP432

2) Installing Arduino

3) IDE configuration

INSTALLING THE DRIVERS FOR MSP432

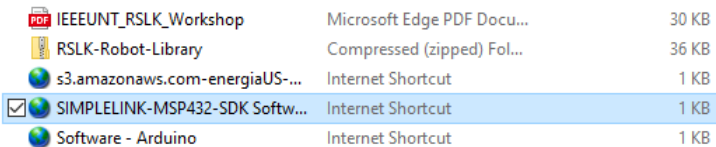1. Go to github.com/thejjenkins/RSLK_Workshop

2. Click the green box "Code" and download the zip file.
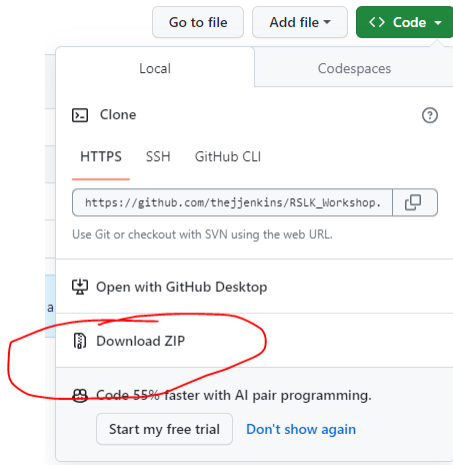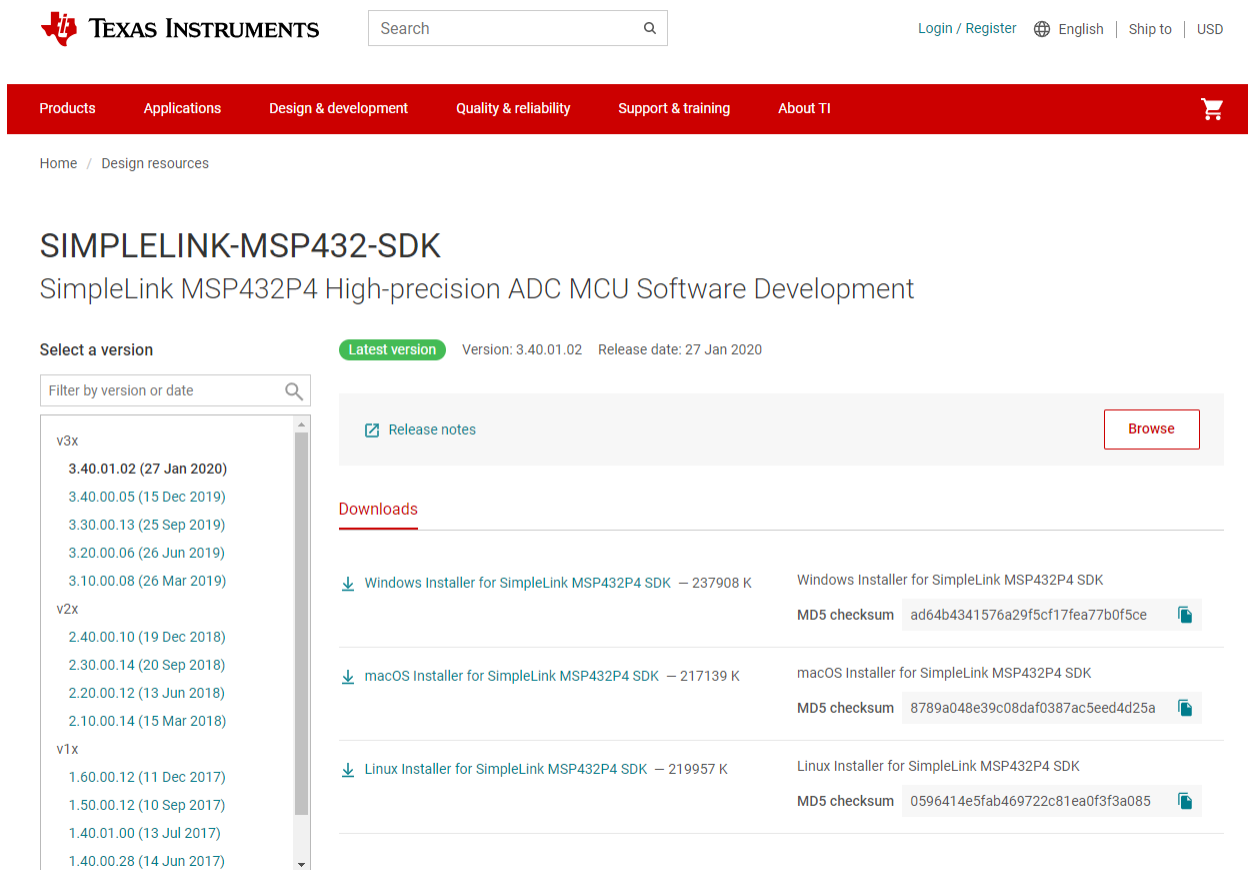

3. Extract the files.
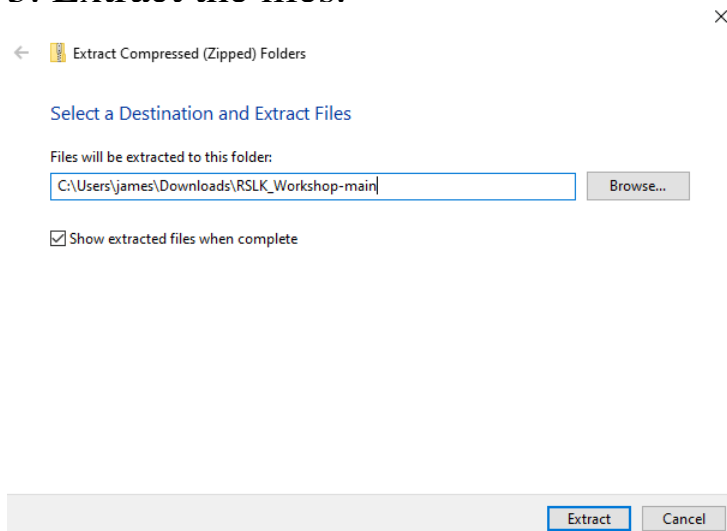
4. Double click on the "SIMPLELINK-MSP432-SDK" shortcut.

5. Download for your operating system.

6. Click next on the default directory. Click next to start the download.
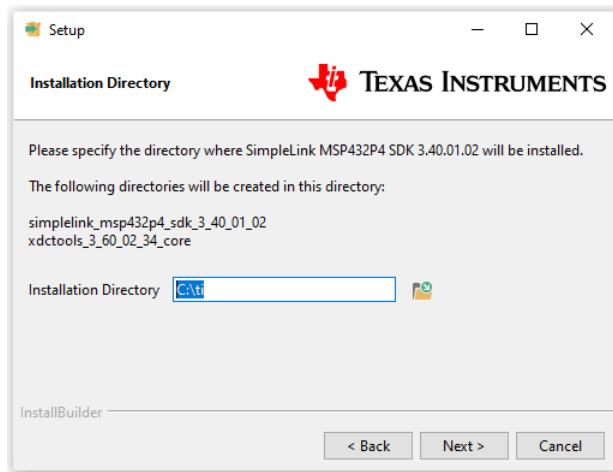
7. If you like reading documentation feel free to view the release notes and quick start guide. Otherwise we will move to installing the Arduino IDE.
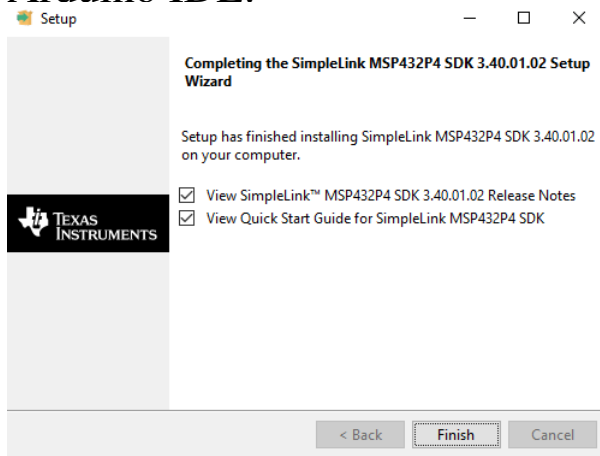
INSTALLING ARDUINO

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
☑🌐 Software - Arduino	Internet Shortcut	1 KB

2. Download for your operating system.

3. Agree.

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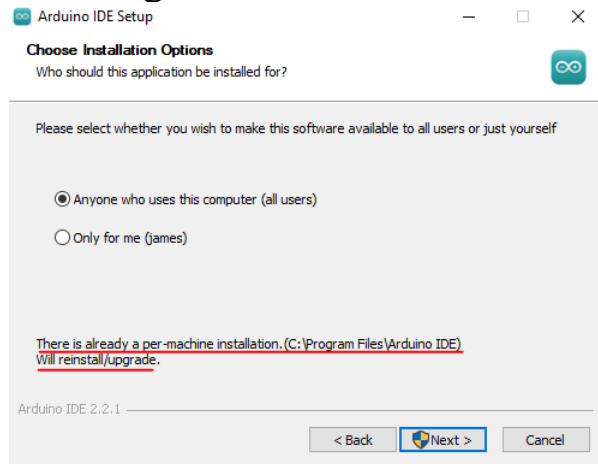
5. Agree.

6. Install.

7. Fin.
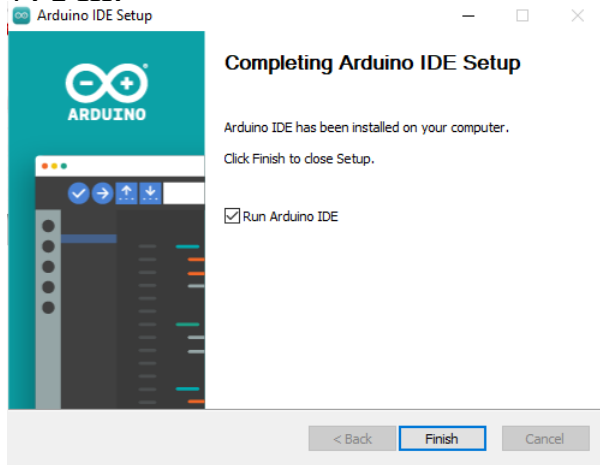
CONFIGURING THE ARDUINO IDE

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.

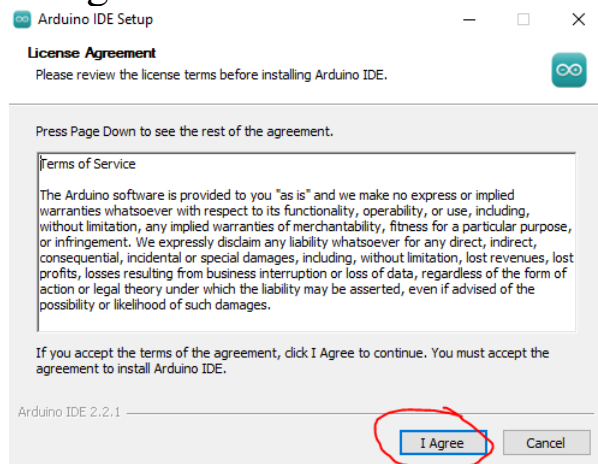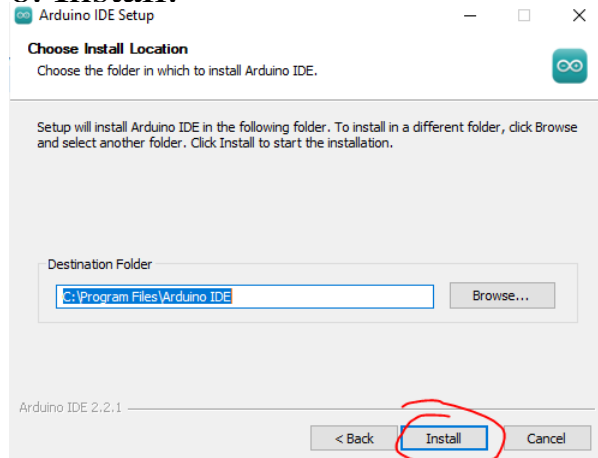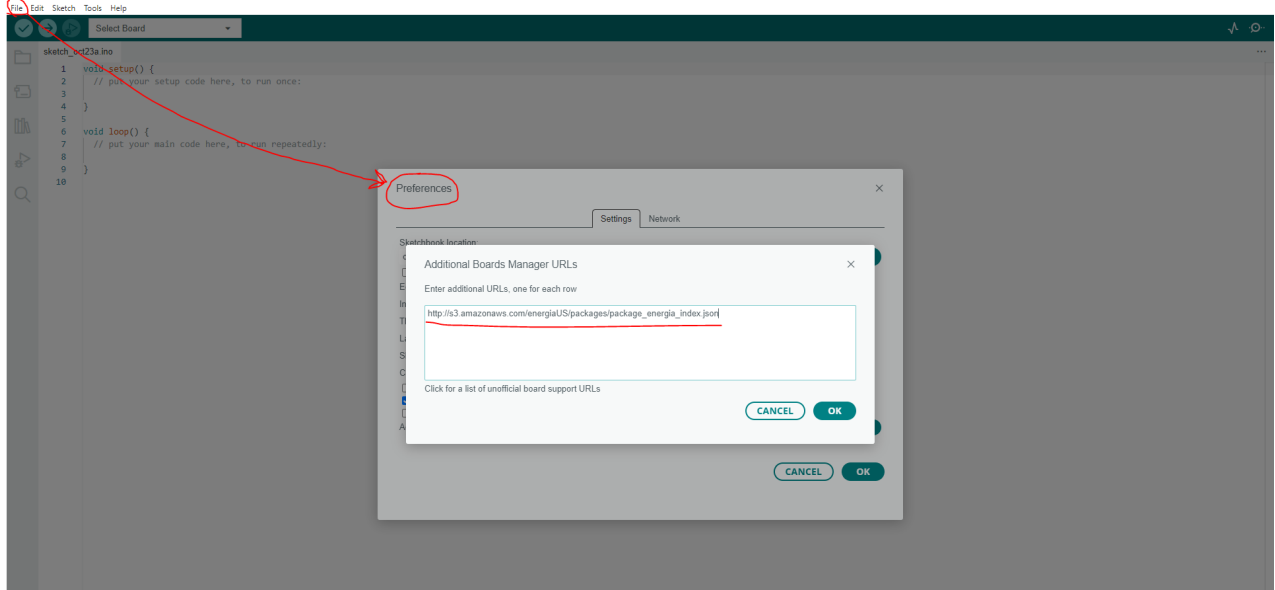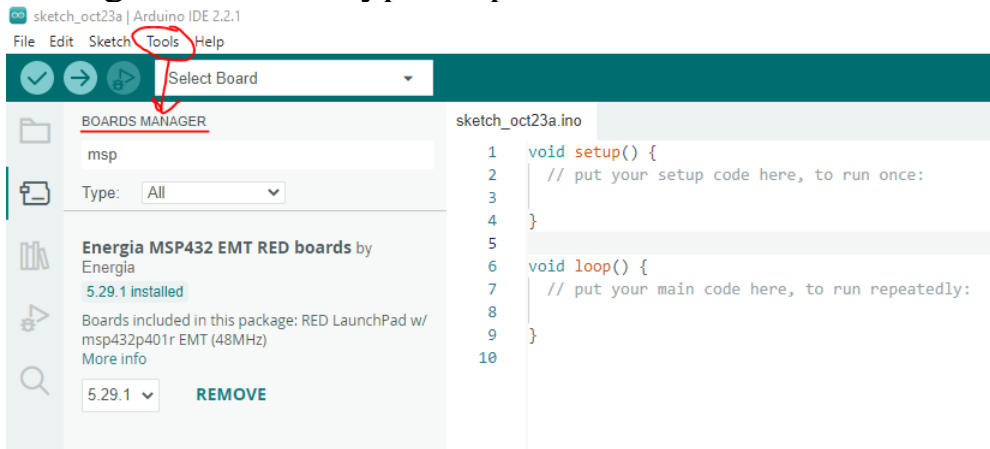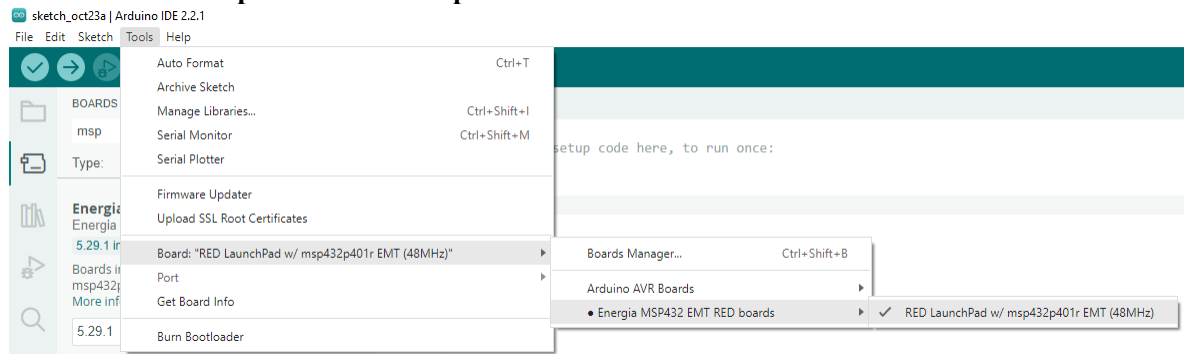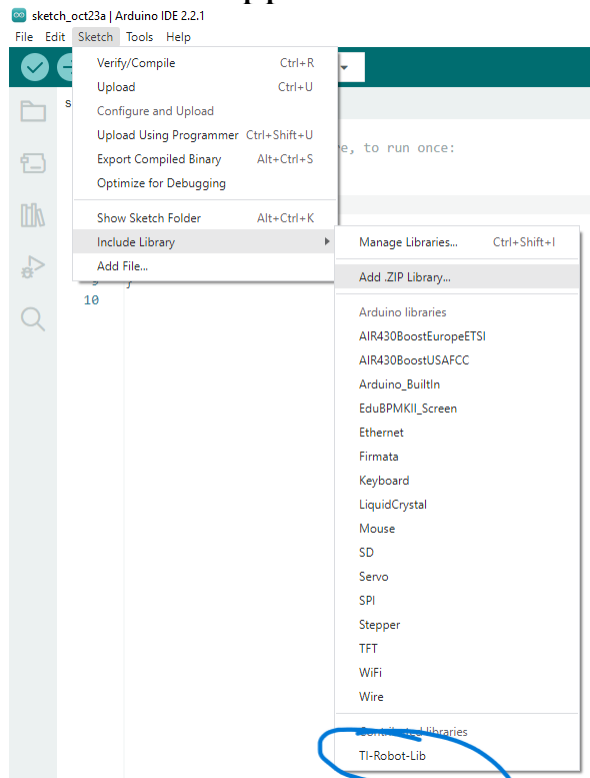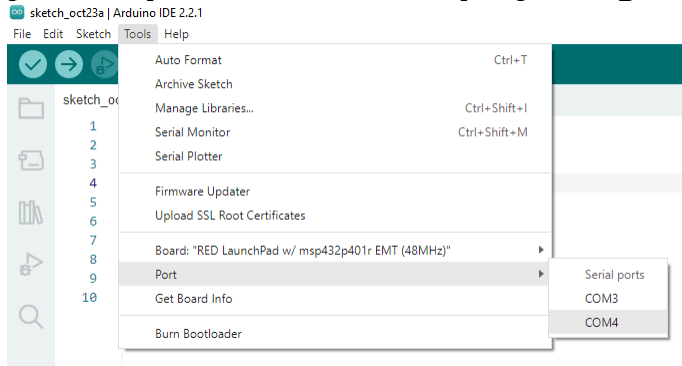3. When the download completes select the board from the same menu as the previous step.
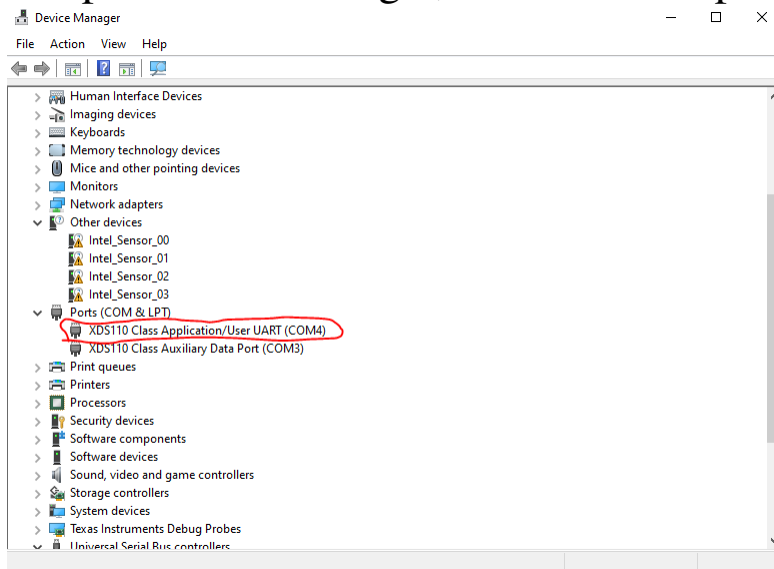

4. Add the zipped RSLK Robot Library folder to Arduino.

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).