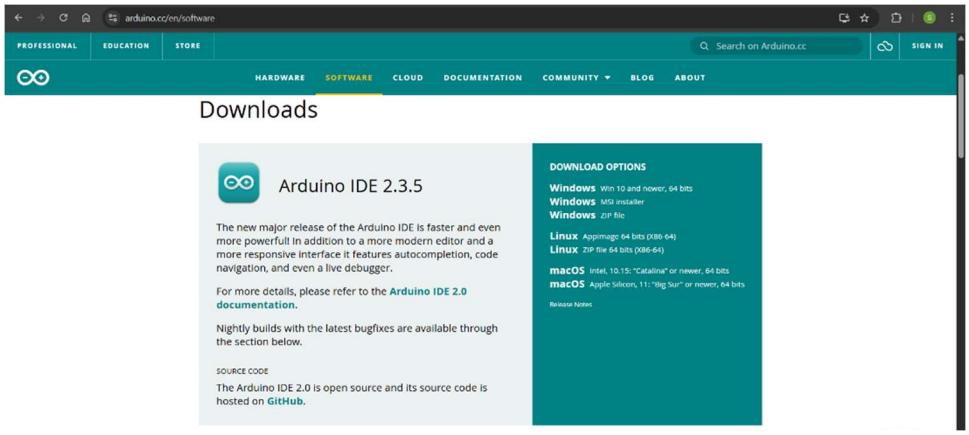
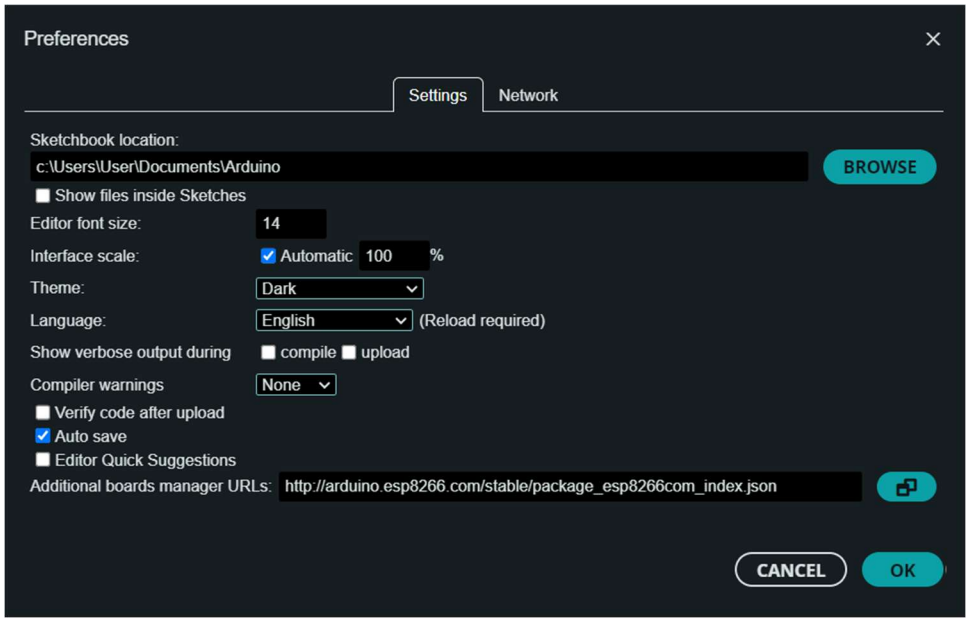
SETTING UP

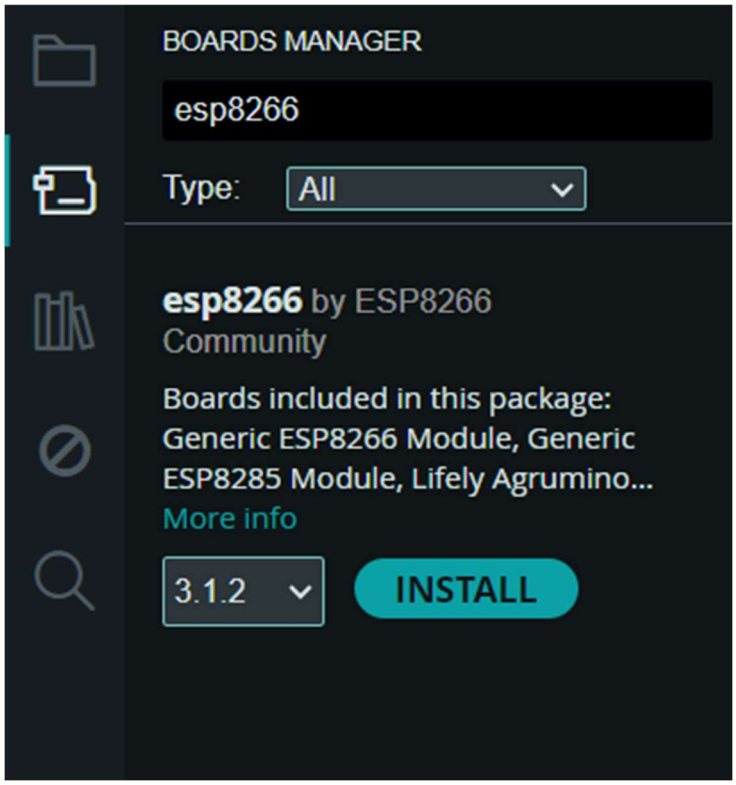
1. Install Arduino IDE(latest version): https://www.arduino.cc/en/software



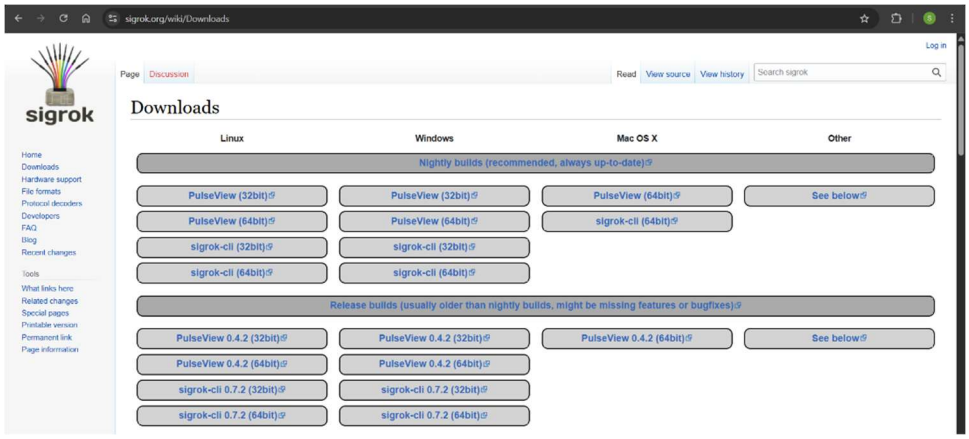
2. Copy http://arduino.esp8266.com/stable/package_esp8266com_index.json and paste it in File->Preferences->Additional boards manager URLs:



3. Go to boards manager and install esp8266 by ESP8266



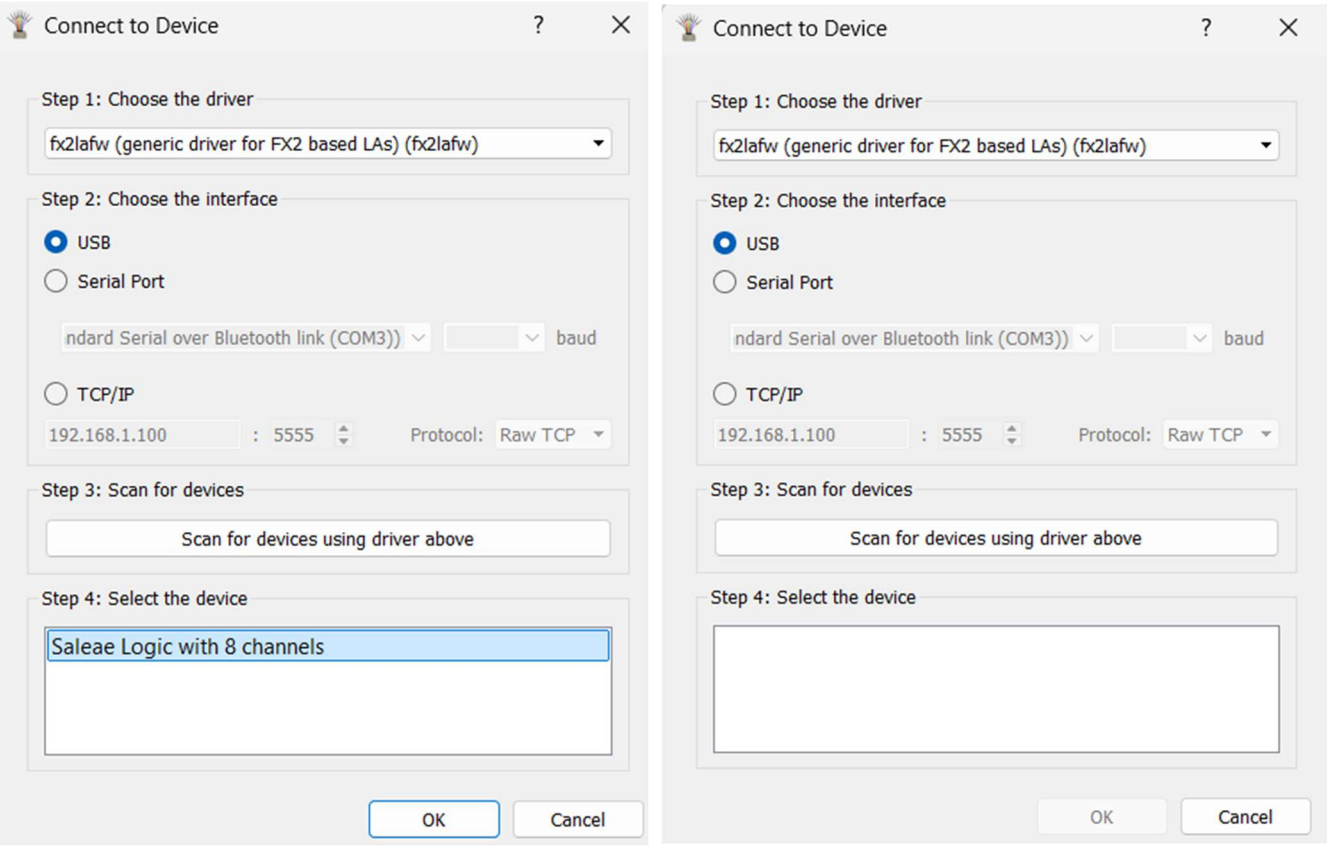
4. Install PulseView(64 bit): https://sigrok.org/wiki/Downloads



5. Connect the logic analyser and click "Demo device" and open "Connect to Device" window

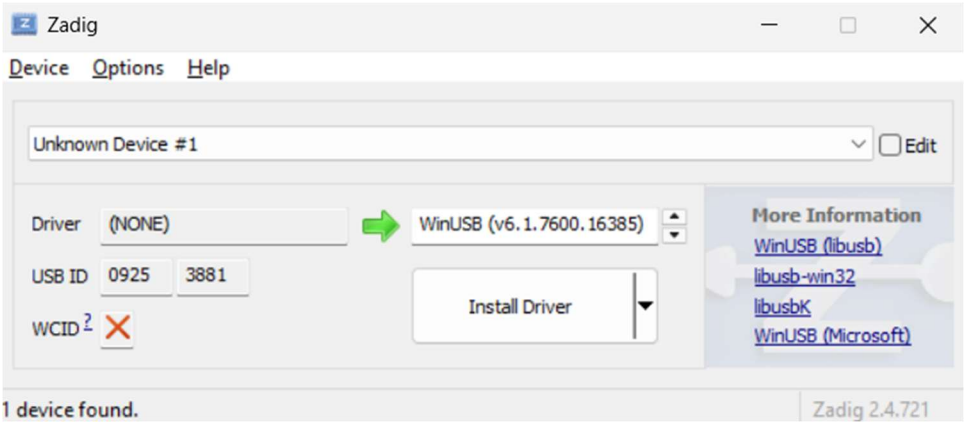
6. Drop down the Choose the driver menu and click on fx2lafw (generic driver for FX2 based LAs) (fx2lafw)

7. Select USB and click on Scan for devices using driver above



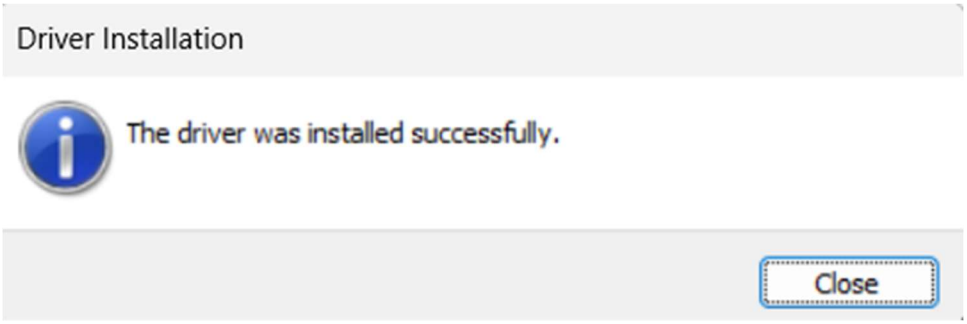
8. Select the device shown below and follow from step 12 (if there is no devices being shown it means that the driver for the logic analyser is missing in your device. Follow step 9-11)

9. Close PulseView and open Zadiag(PulseView) and make sure you have connected the logic analyser

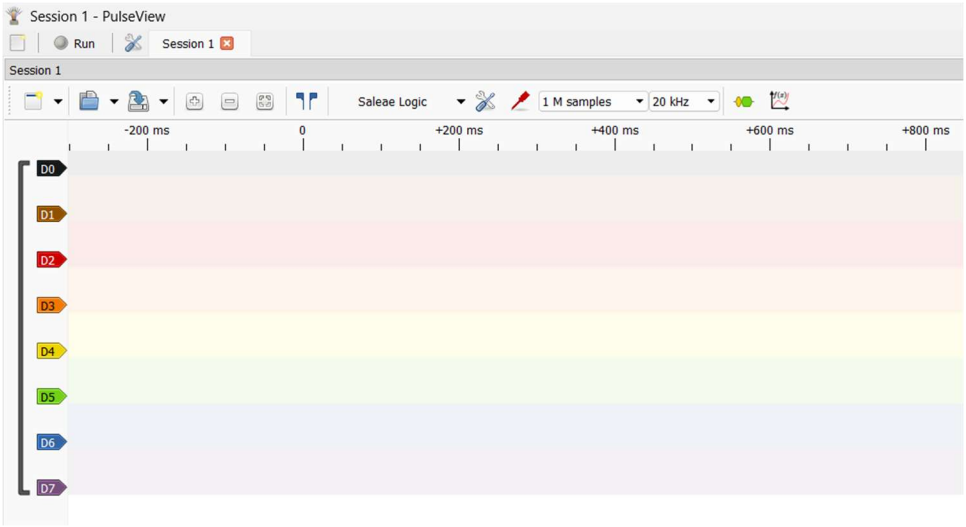


10. Click on Install Driver

11. After installing close Zadiag(PulseView) and launch PulseView



12. Now you must be seeing your logic analyser company e.g.: "Salea Logic" in place of "Demo Device"



14. Make a New Sketch and paste the code

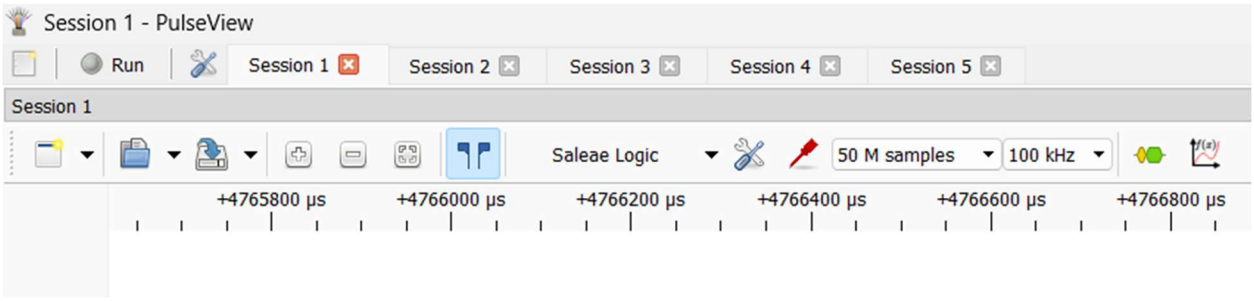
15. Connect the SDA wire to GPIO4, SCL wire to GPIO5 and connect the other end of the wires to the logic analyser

16. Adjust the I2C_DELAY as per user requirement, and the I2C_DELAY_MOD(To counteract operational delay varies from board)

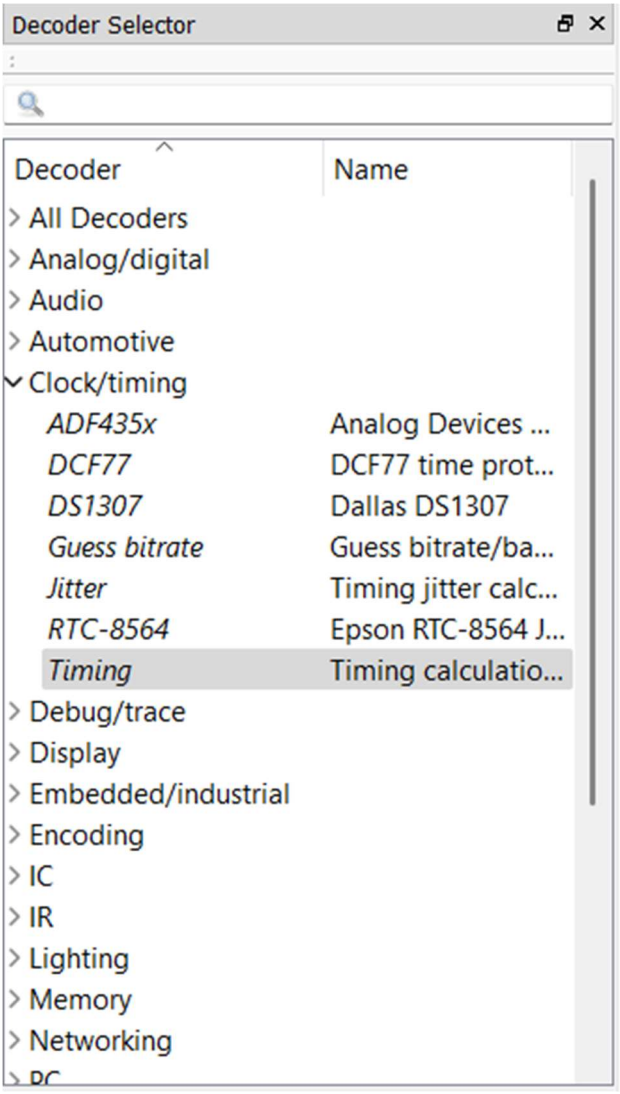
17. Adjust the Slave Address, Register Adress and the Data to be written

13. Set the Baud rate of the serial monitor to 115200

14. Run the code and view the output in the PulseView and set the Samples and Frequency accordingly, Preferable 50M samples and 3MHz respectively and click on Run



15. To view the precise timing of the channel click on the Add Protocol Decoder icon next to the frequency and click on Timing under Clock/timing



17. Click on the Timing and select the channel from the drop menu