bootloader for Oled Openxenium/Arduinium

Tools needed:

https://www.amazon.co.uk/ELEGOO-Controller-ATmega2560-ATMEGA16U2- Compatible/dp/B06XKHN62M/ref=sr_1_1_sspa?crid=3GL8WCXC2MPCV&keywords=elegoo+mega+2560+r3&qid=1702810919&spr efix=elegoo+mega+2560+r3,aps,93&sr=8-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&th=1

https://www.aliexpress.com/item/1005006079897017.html?spm=a2g0o.order_list.order_list_main.29.3f9b1802Ud4efV

1 - Open Arduino Isp:

- connect the ELEGOO Mega R3 Controller Board
- go to File/Examples/ ArduinoISP >ArduinoISP
- ArduinoISP sketch will open for boot loader setup

2 - Connecting the Mega2560 R3:

- connect the Mega R3 to the SPI pads on bottom of the oled openxenium or arduinium. See pics for reference below.
- Undefine //#define Use_Old_Style_Wiring in the sketch to #define Use_Old_Style_Wiring

V5 to v5

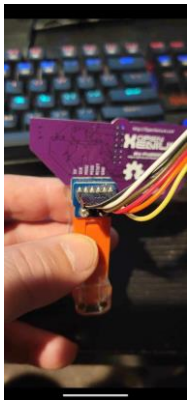
GND to GND

PIN 10 to RESET

PIN 11 to MOSI

PIN 12 to MISO

PIN 13 to SCK



3 - Using ArduinoISP:

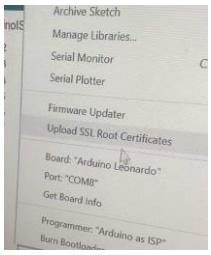
- go to Tools/ Board/Arduino AVR

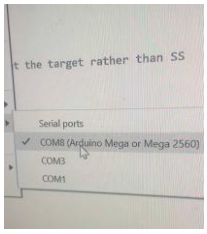
  Boards/Arduino Leonardo

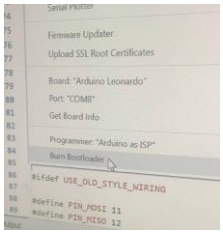
- go to Port/Com Number(Arduino

  Mega or Mega2560)

- Programmer “Arduino as ISP”
- Burn Bootloader
- After that has finished the pc will recognise it as an Arduino Leanardo
- Open the latest ino from github and program the Oled Openxenium/Arduinium with a usb cable and the mega2560



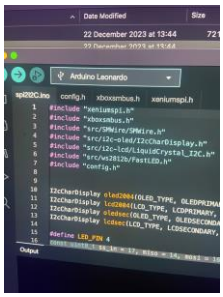




1 - Programming the oled code to the Arduino Leanardo:

- download the Spi2l2C software of your chose

https://github.com/turfster1/Spi2i2c2020-/tree/master/Spi2l2C



2 - Spi2l2C file:

- In the Spi2l2C file the will be a spi2I2C.ino file double click on it
- It will open Arduino IDE on your pc
- You should have all 4 files listed on the top(see pic)
- Select Tools/Board: "Arduino Leanardo"
- Open the config.h section and edit for primary/secondary oled and burnIn features
- Click the arrow to upload
- Done
- Make sure Lcd.xml is in the userdata folder

https://github.com/turfster1/Spi2i2c2020-/tree/master/use this lcd.xml