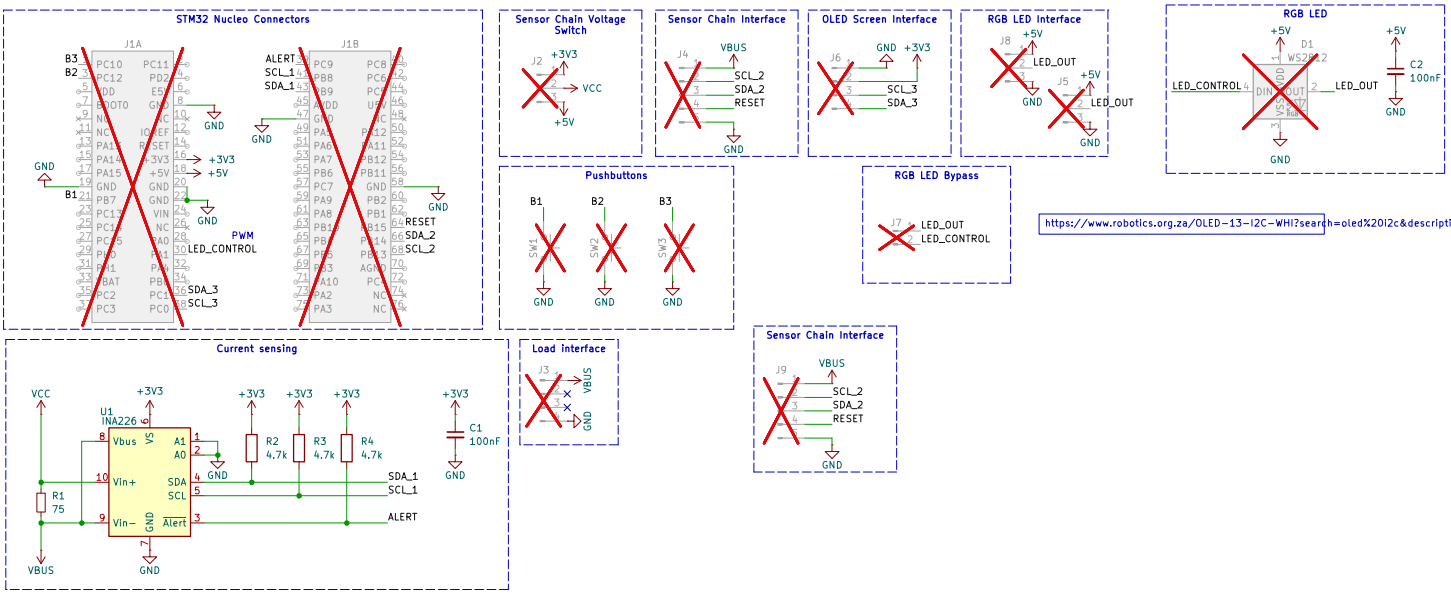
STM32 Nucleo Connectors
J1A
J1B
B3
B2
B1
GND
+3V3
+5V
PWM
LED_CONTROL
SDA_3
SCL_3
ALERT
SCL_1
SDA_1
RESET
SDA_2
SCL_2
Sensor Chain Voltage Switch
J2
VCC
Sensor Chain Interface
J4
VBUS
SCL_2
SDA_2
RESET
OLED Screen Interface
J6
SCL_3
SDA_3
RGB LED Interface
J8
J5
LED_OUT
RGB LED
D1
WS2812
DIN
DOUT
VDD
VSS
C2
100nF
Pushbuttons
SW1
SW2
SW3
RGB LED Bypass
J7
https://www.robotics.org.za/OLED-13-I2C-WHI?search=oled%20i2c&description=true
Current sensing
U1
INA226
Vbus
Vin+
Vin−
VS
A1
A0
SDA
SCL
Alert
R1
75
R2
4.7k
R3
4.7k
R4
4.7k
C1
100nF
Load Interface
J3
Sensor Chain Interface
J9