

1

2

3

4

5

6

A

B

C

D

power

ESP32

sensors2

pyro

sensors1

H101
MountingHole_Pad

H102
MountingHole_Pad

H103
MountingHole_Pad

H104
MountingHole_Pad

GND

File: power.kicad_sch

File: ESP32.kicad_sch

File: sensors2.kicad_sch

File: pyro.kicad_sch

File: sensors1.kicad_sch

Done by :- Arudhran

Sheet: /

File: vectron.kicad_sch

Title: AVIONICS PCB

Size: A4

Date: 2025-05-27

Rev: 1.0.0

KiCad E.D.A. 9.0.2

Id: 1/6

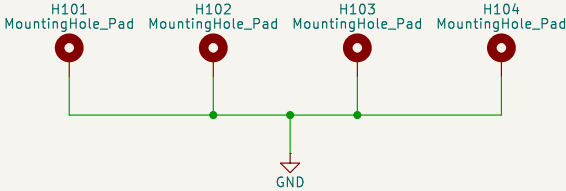
power

ESP32

sensors2

pyro

sensors1



File: power.kicad_sch

File: ESP32.kicad_sch

File: sensors2.kicad_sch

File: pyro.kicad_sch

File: sensors1.kicad_sch

Done by :- Arudhran

Sheet: /

File: vectron.kicad_sch

Title: AVIONICS PCB

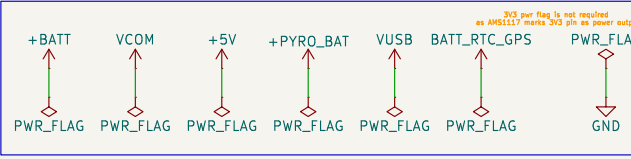
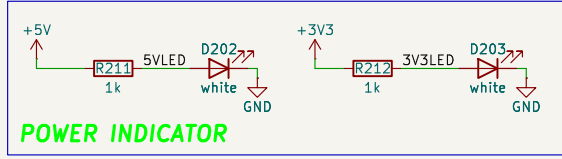
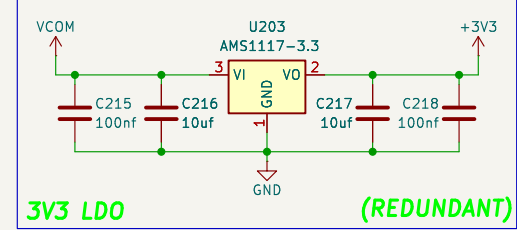
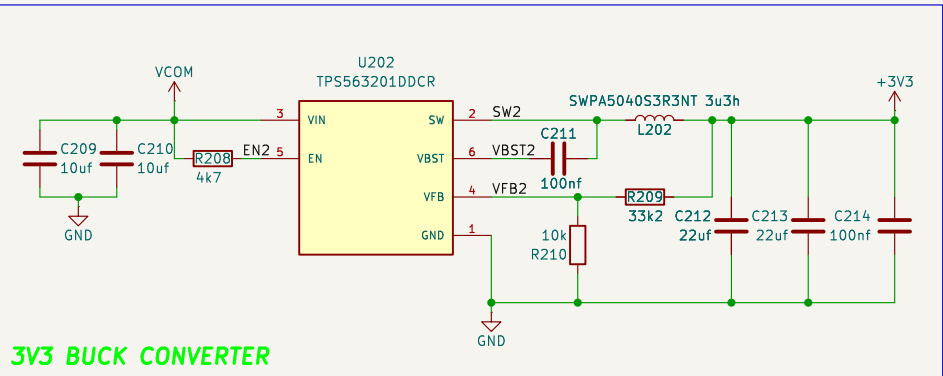
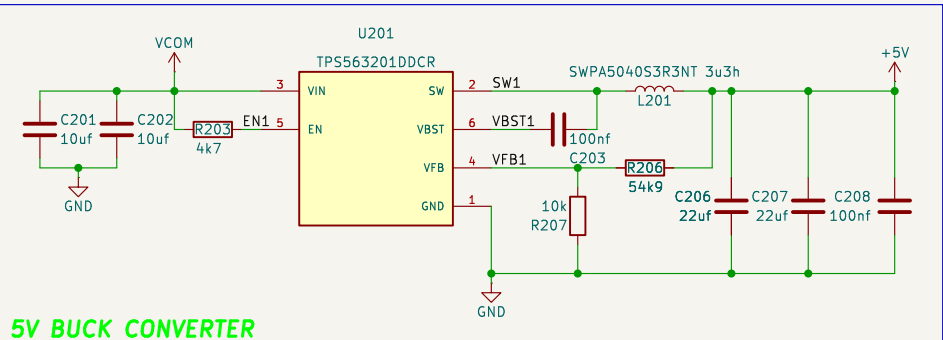
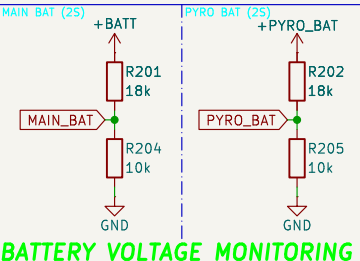
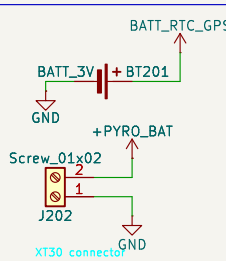
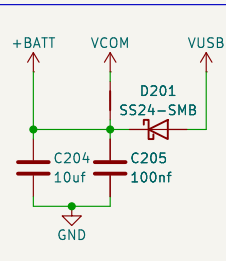
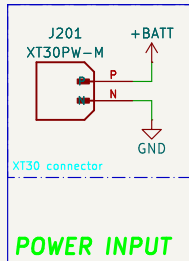
Size: A4

Date: 2025-05-27

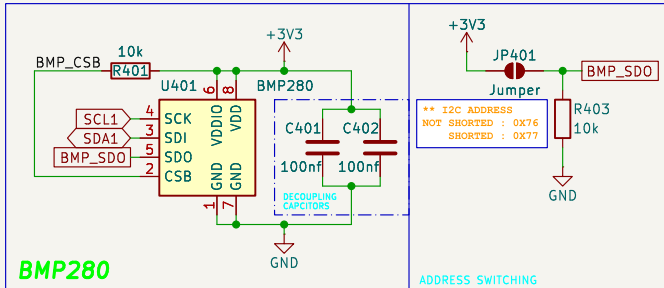
Rev: 1.0.0

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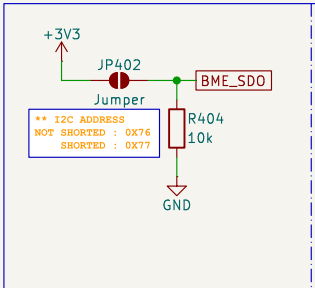
Done by :- Arudhran	
Sheet: /power/	
File: power.kicad_sch	
Title: AVIONICS PCB	
Size: A4	Date: 2025-05-27
KiCad E.D.A. 9.0.2	Rev: 1.0.0
	Id: 2/6



BMP280

The BMP80 or BME280 have same I2C address and address changing criteria
 111011X - 7bit address where X is 0 when SDO is connected to GND (1110110 - 0x76)
 1 when SDO is connected to 3V3 (1110111 - 0x77)

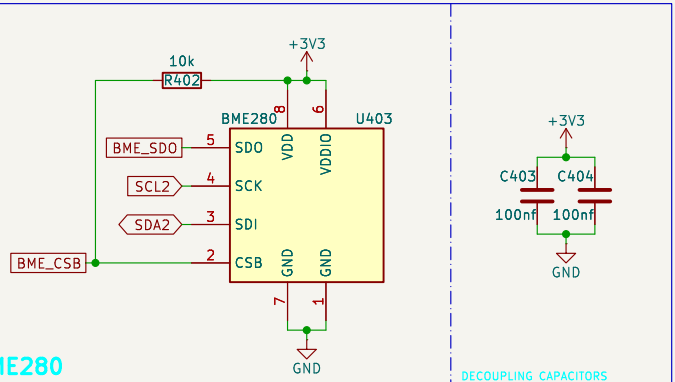
ADDRESS SWITCHING



BMP280

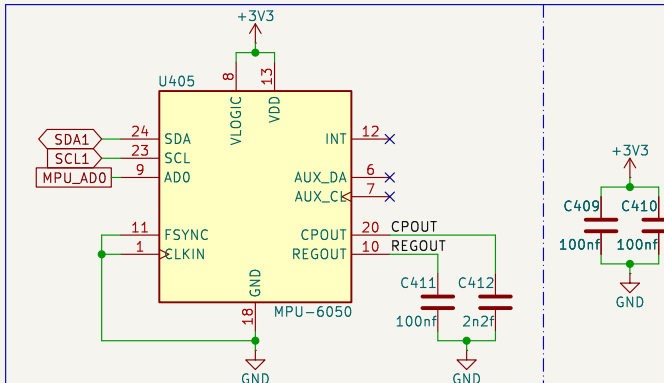
ADDRESS SWITCHING

BMP280/BME280 (REDUNDANT)



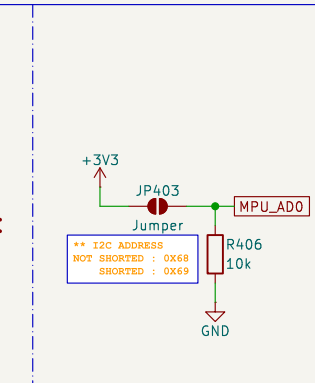
BME280

DECOUPLING CAPACITORS

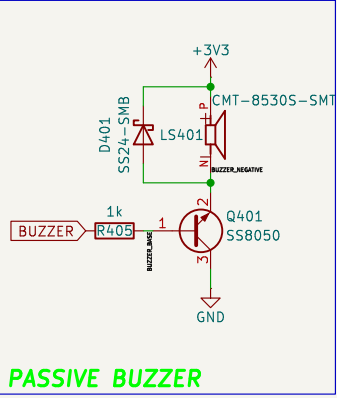


MPU6050

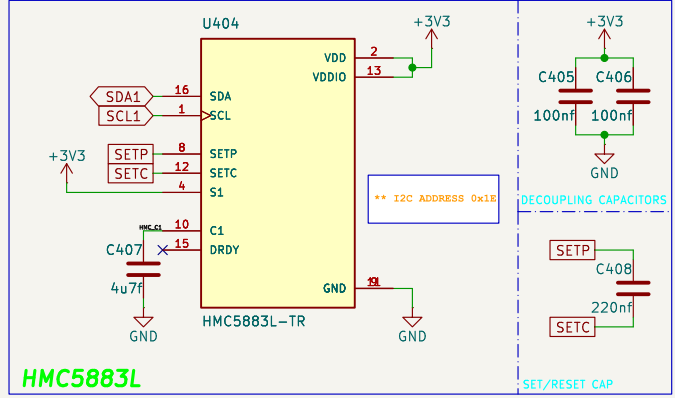
DECOUPLING CAPACITORS



ADDRESS SWITCHING

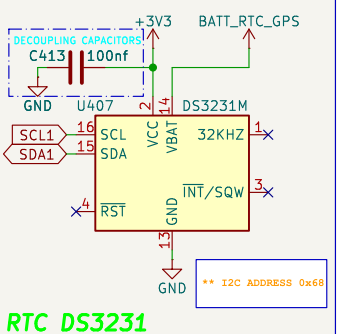


PASSIVE BUZZER

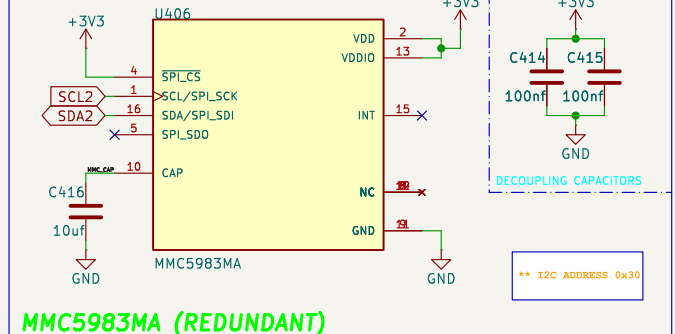


HMC5883L

SET/RESET CAP

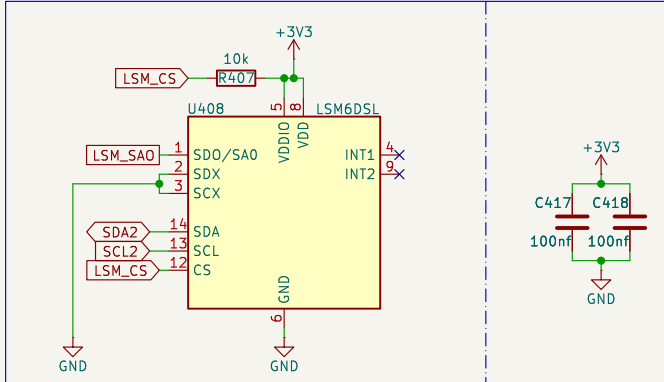


RTC DS3231



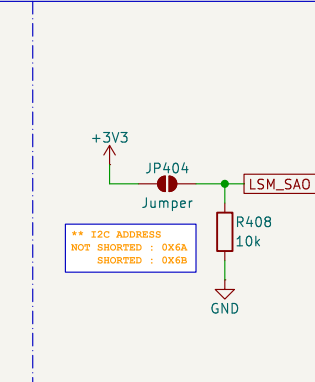
MMC5983MA (REDUNDANT)

** I2C ADDRESS 0x30



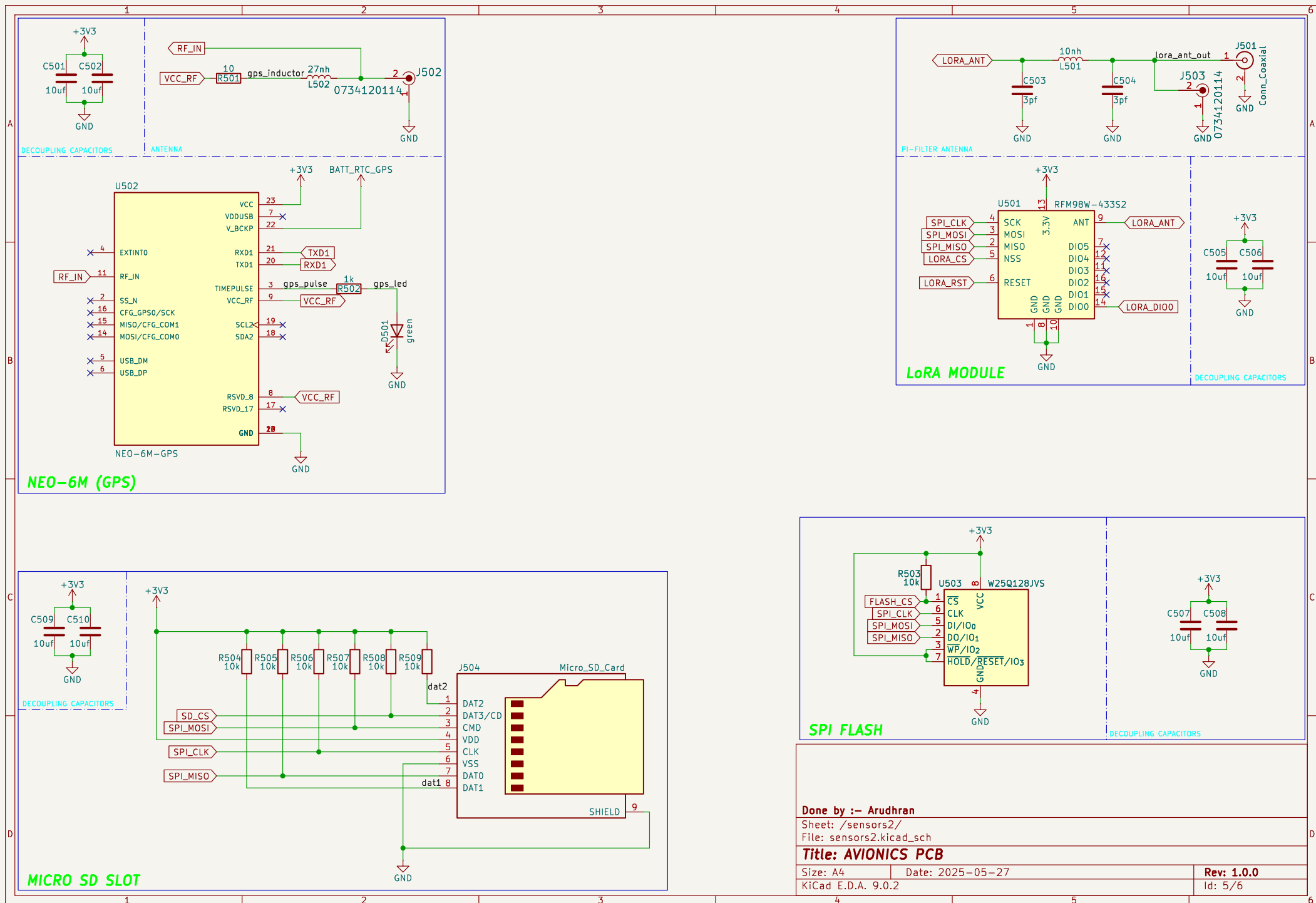
LSM6DSL (REDUNDANT)

DECOUPLING CAPACITORS



ADDRESS SWITCHING

Done by :- Arudhran			
Sheet: /sensors1/			
File: sensors1.kicad_sch			
Title: AVIONICS PCB			
Size: A4	Date: 2025-05-27		Rev: 1.0.0
KiCad E.D.A. 9.0.2			Id: 4/6



Done by :- Arudhran

Sheet: /sensors2/
File: sensors2.kicad_sch

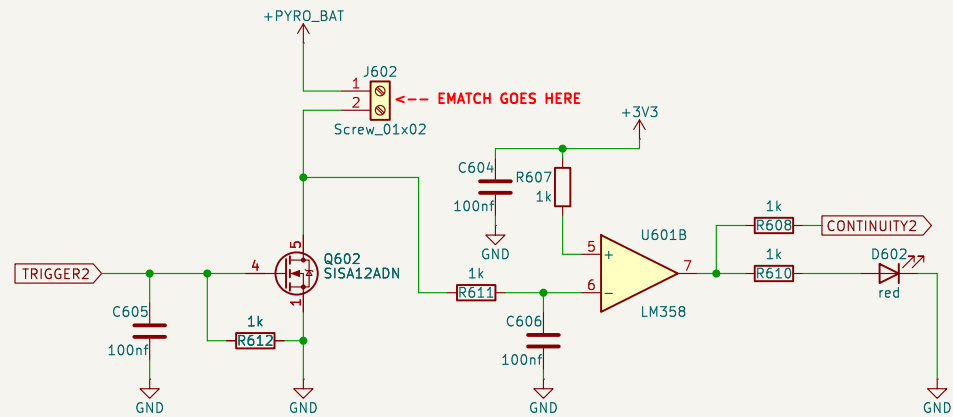
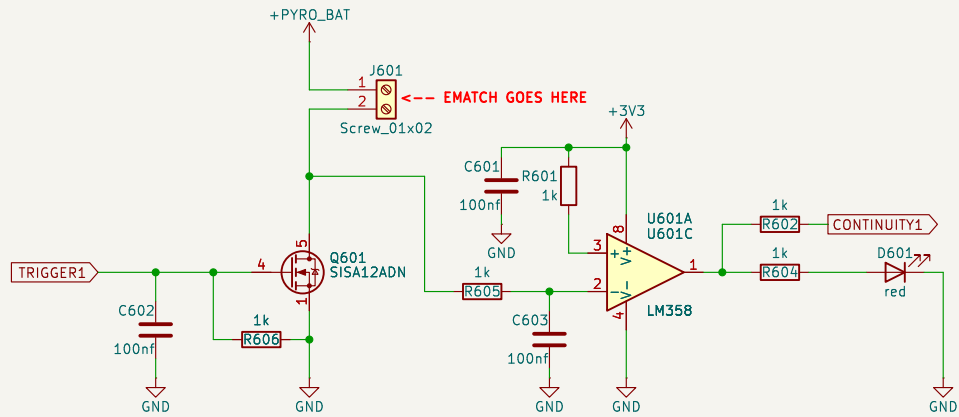
Title: AVIONICS PCB

Size: A4 Date: 2025-05-27

KiCad E.D.A. 9.0.2

Rev: 1.0.0

Id: 5/6



Done by :- Arudhran

Sheet: /pyro/
File: pyro.kicad_sch

Title: AVIONICS PCB

Size: A4 Date: 2025-05-27
KiCad E.D.A. 9.0.2

Rev: 1.0.0
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