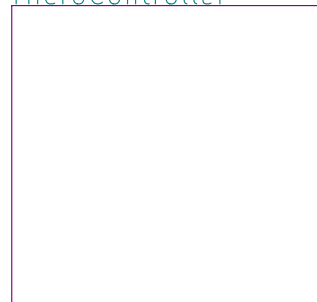


Power Regulation



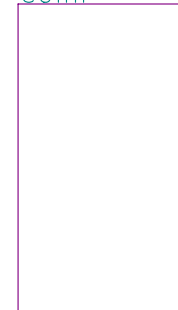
Power Regulation.sch

MicroController



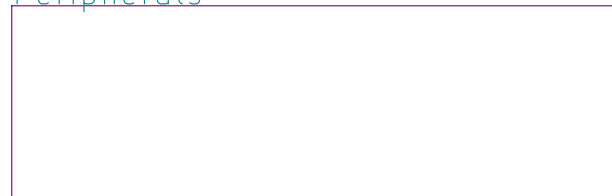
MicroController.sch

Conn



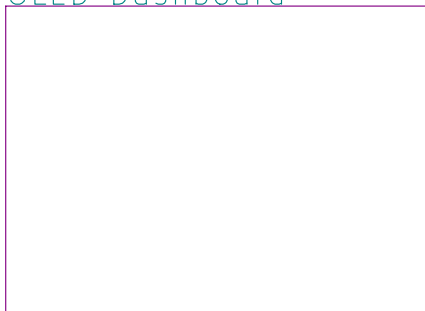
Conn.sch

Peripherals



Peripherals.sch

OLED Dashboard



OLED Dashboard.sch

MEMORIAL BAJA



Sheet: /
File: OBC-PDB.sch

Title: Electronic Instrument Cluster (EIC)

Size: A4 Date: Feb. 24/2018
KiCad E.D.A. kicad 4.0.7

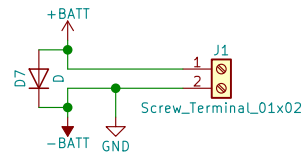
Rev: 1.0
Id: 1/6

12V

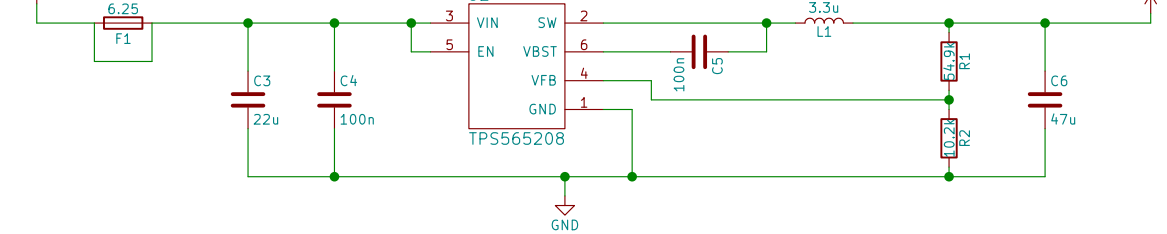


Supplied from Lead Acid Battery

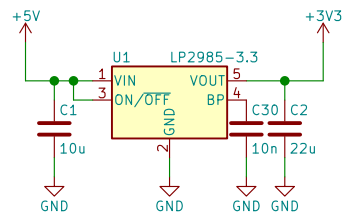
5V



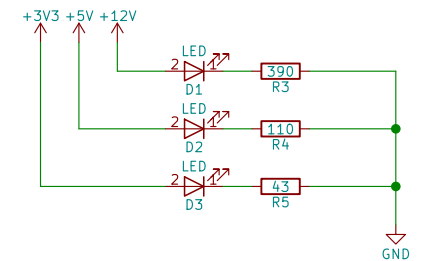
Select real fuse



3V3 LDO



PWR Indication



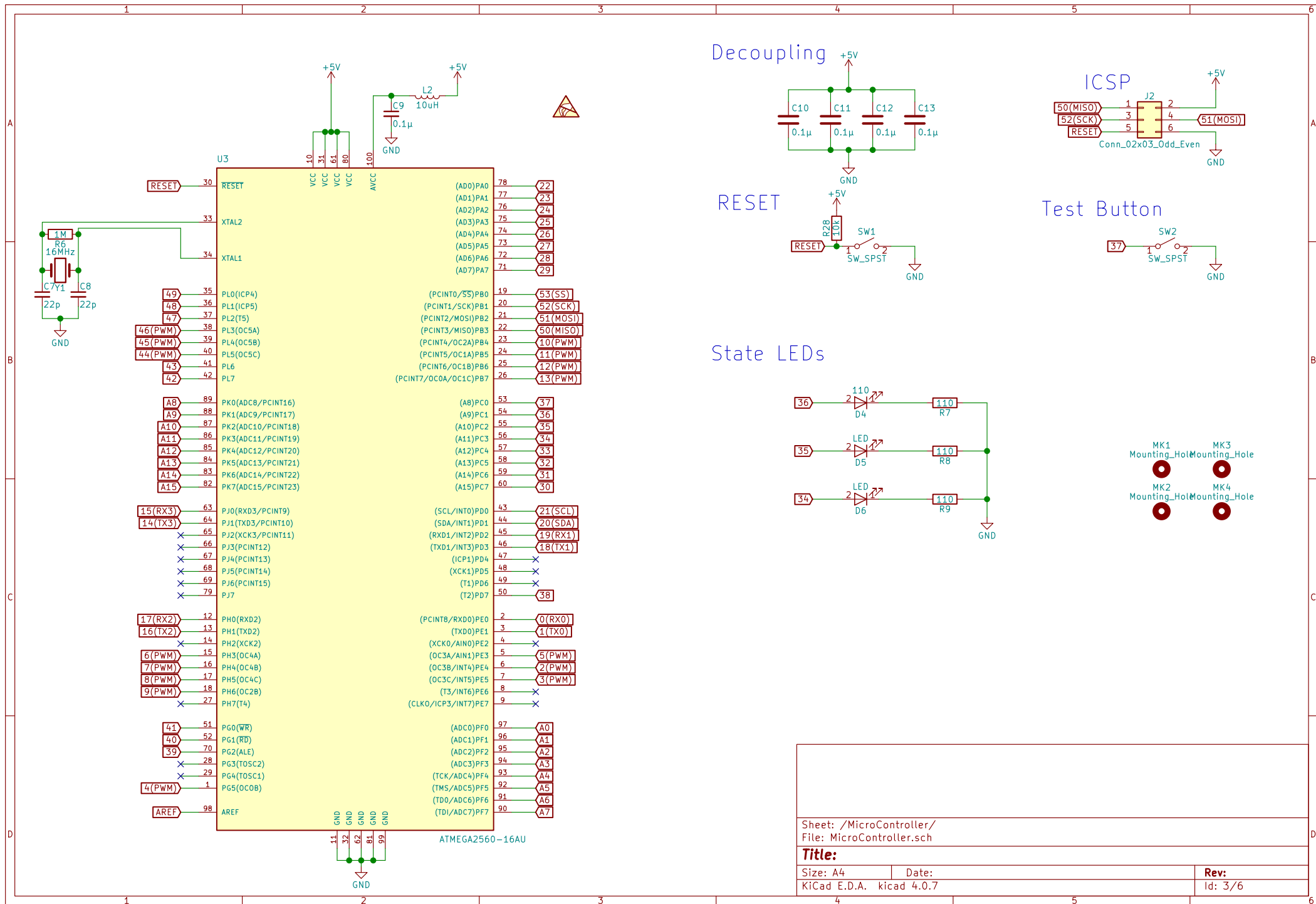
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Date:

Rev:
Id: 2/6

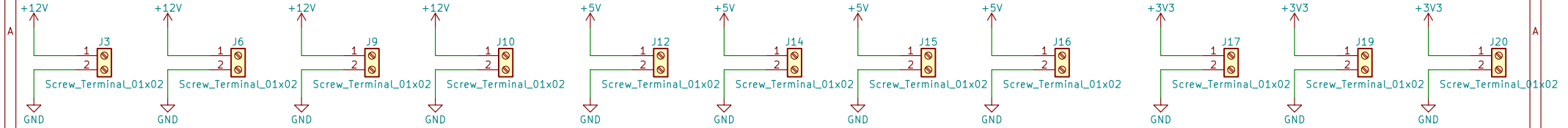


Terminal Blocks

4 x 12V

4 x 5V

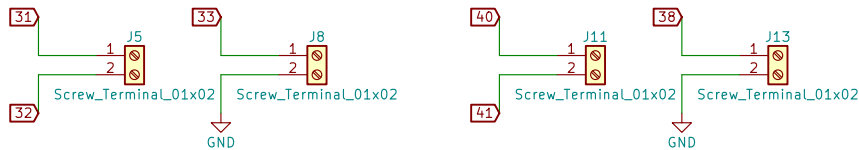
3 x 3V3



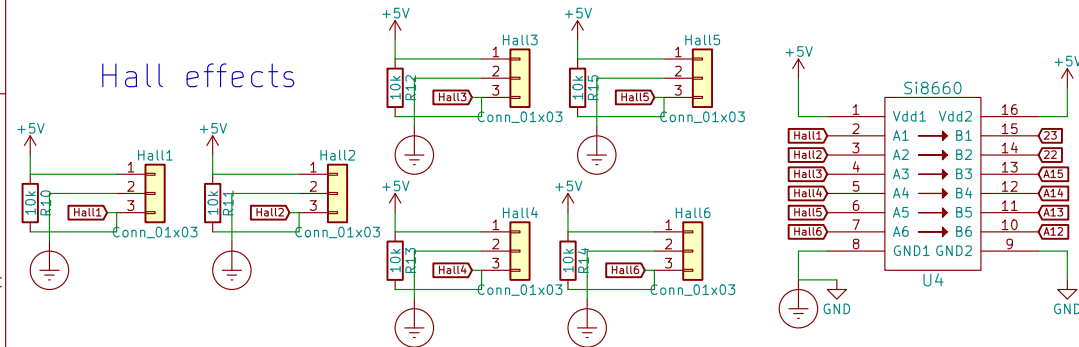
Shiftbutton Screw Terms

3 Shift Buttons

Buttons

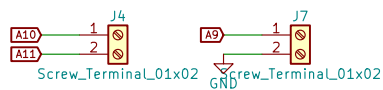


Hall effects



Analog

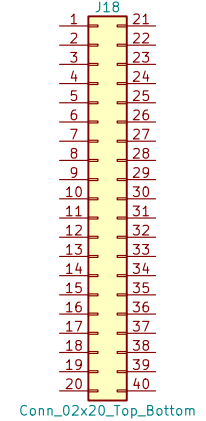
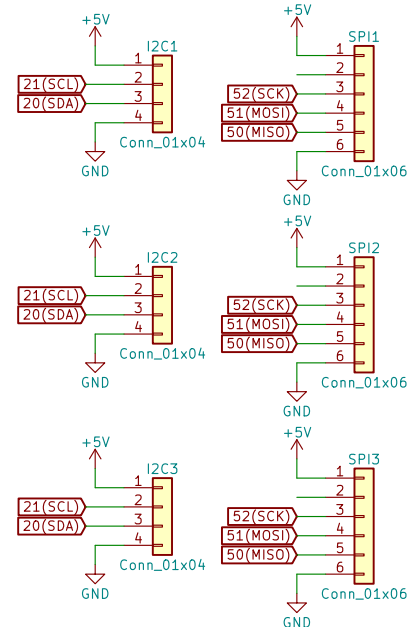
Bunch of analogs that are not on sensors and stuff



Extra I/O

I2C and SPI

Remaining Pins (Male)



Sheet: /Conn/
File: Conn.sch

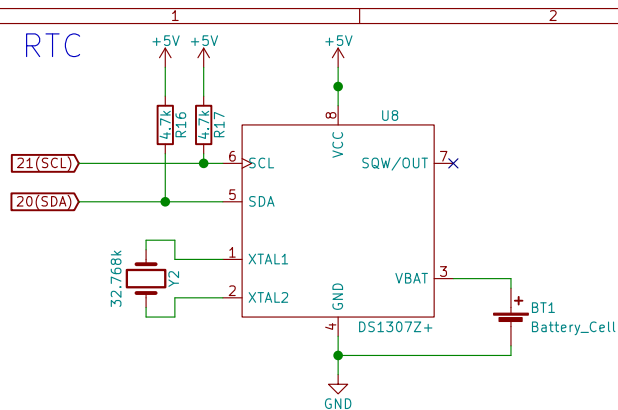
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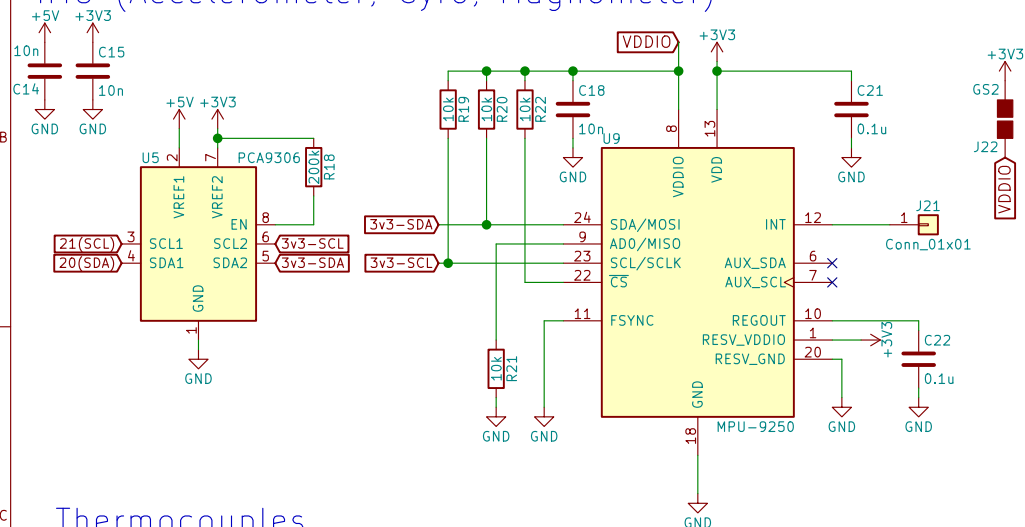
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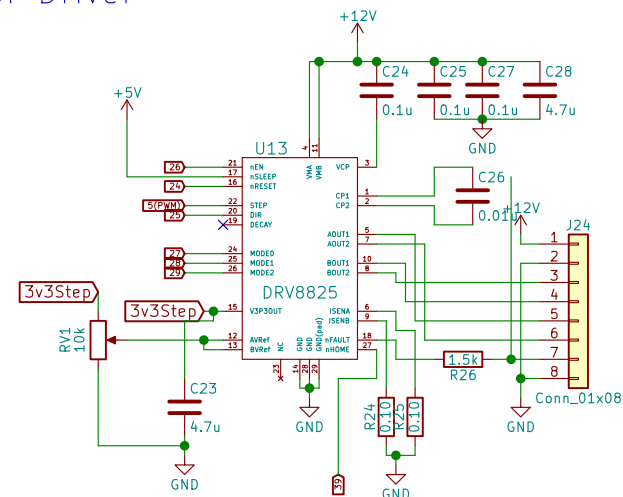
RTC



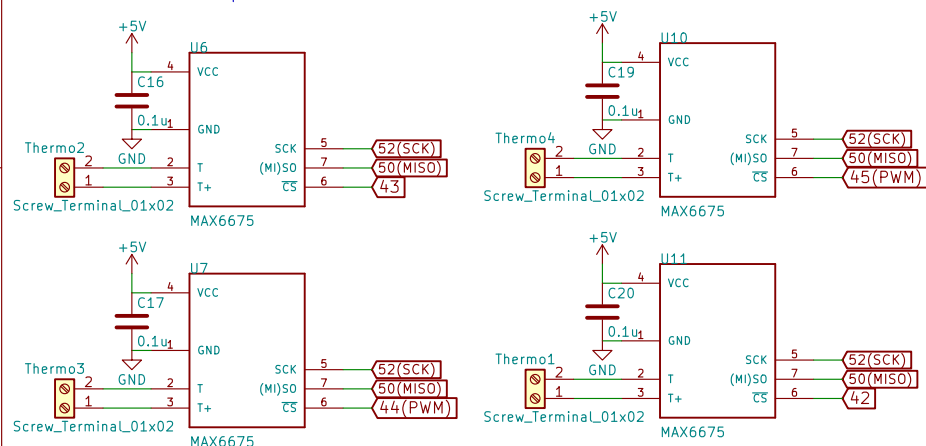
IMU (Accelerometer, Gyro, Magnetometer)



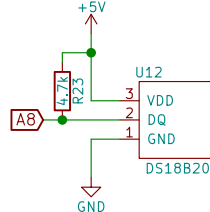
Motor Driver



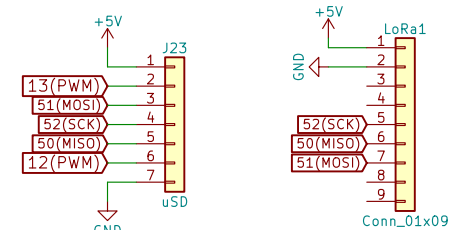
Thermocouples



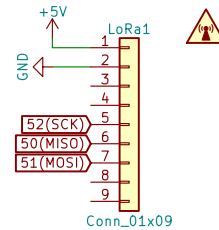
On Board Temp



uSD



LoRa



Sheet: /Peripherals/
File: Peripherals.sch

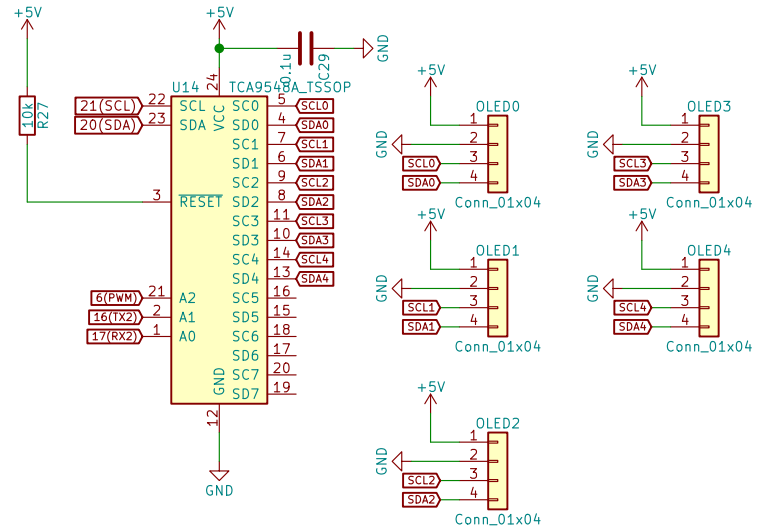
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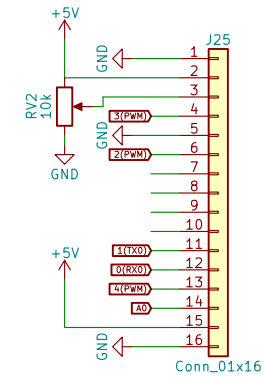
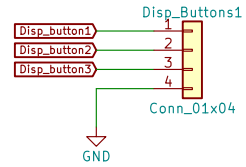
Rev:
Id: 5/6

i2c screens w/ tca9548A expander



20x4 lcd screen

Screen Buttons



Sheet: /OLED Dashboard/
File: OLED Dashboard.sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad 4.0.7

Rev:

Id: 6/6