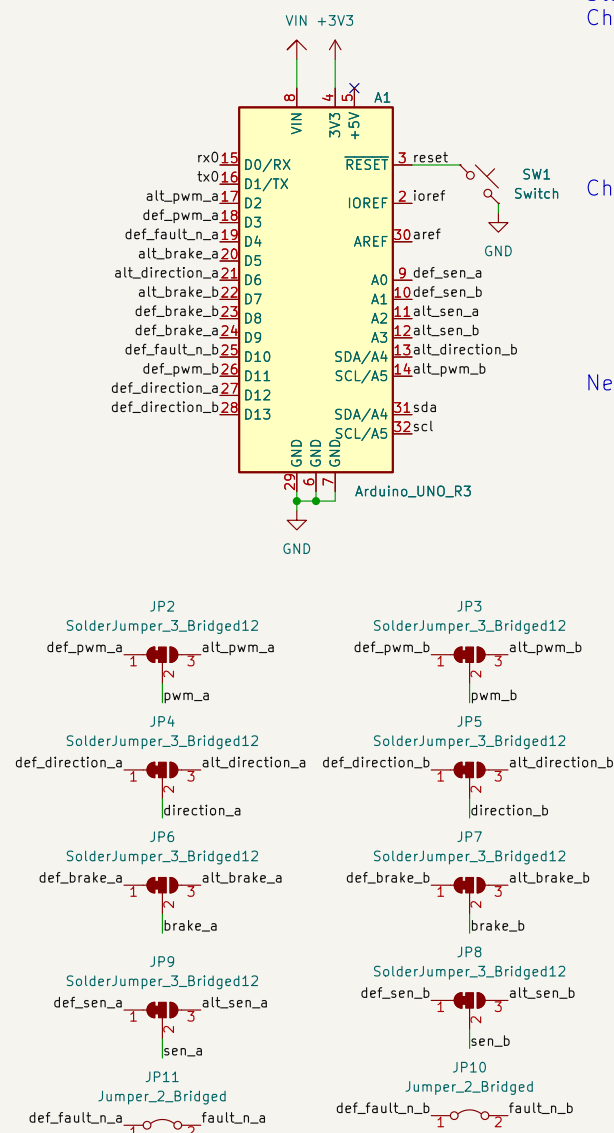
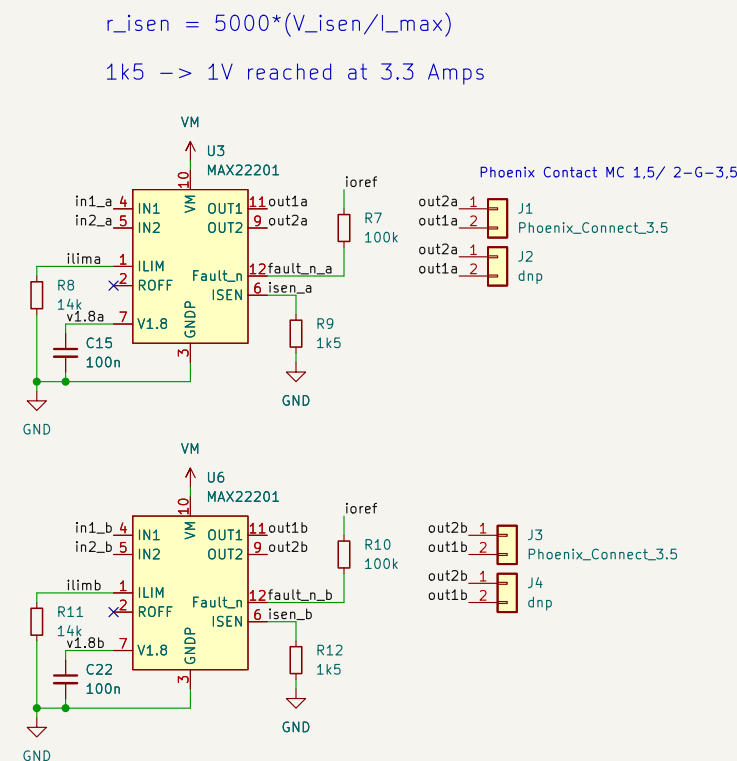
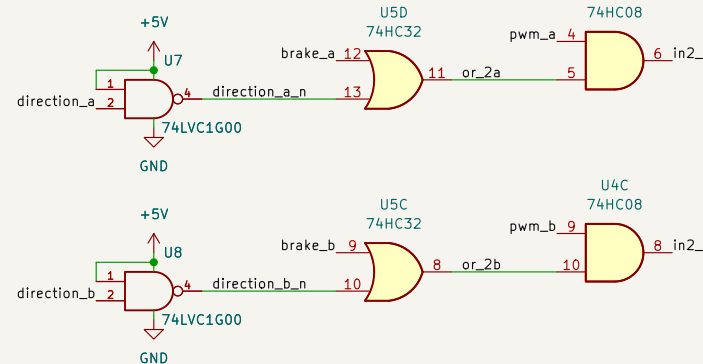
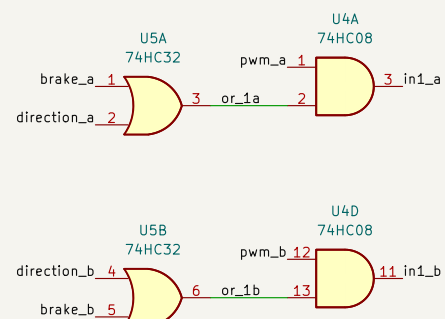
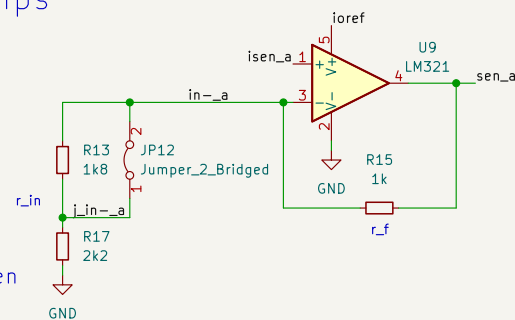


```
IN1 = pwm and (brake or dir)
IN2 = pwm and (brake or dir_n)
```



3V3: r_f 1k, r_{in} 2k3
5V: r_f 1k, r_{in} 4k



Supplied by IOREF to protect ADCs
Jumper needs to be cut for x3.2 gain, otherwise x5 gain

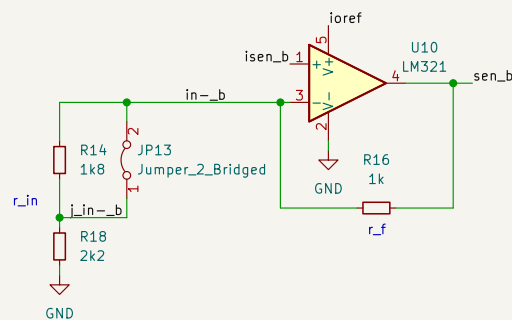


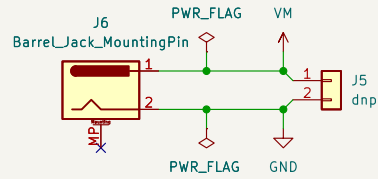
Diagram illustrating four 4-bit bus connections:

- J8**: Conn_01x04
- J9**: Conn_01x04
- J10**: Conn_01x04
- J11**: Conn_01x04

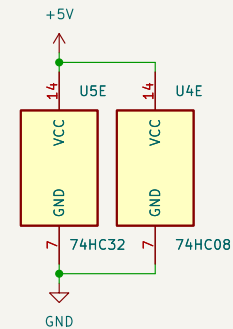
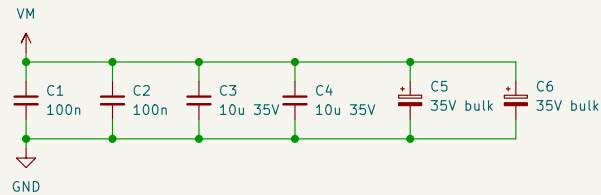
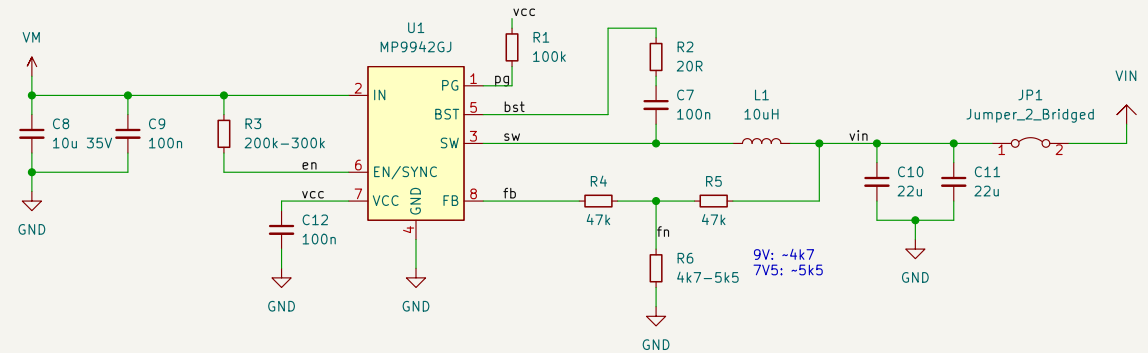


Rev: Prototype A
Id: 1/2

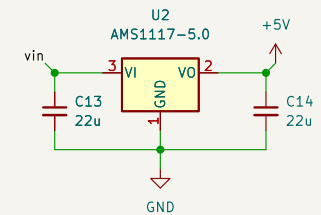
Barrel Jack



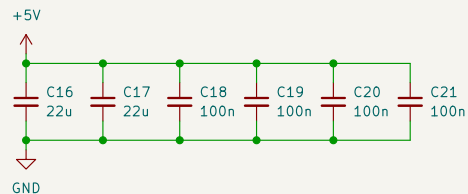
VIN DCDC Buck Converter



5V LDO
Better to rely on our own 5V
(for i2c devices, OLED Display etc)



TODO should this switch between 5V and 3V3?



Engineer: Erwin Peterlin
semify-edu.com

Sheet: /Power/
File: power.kicad_sch

Title: Motor Shield (DCC-EX compatible)

Size: A4 Date: 2023-01-30

KiCad E.D.A. kicad (6.0.10)

Rev: Prototype A

Id: 2/2