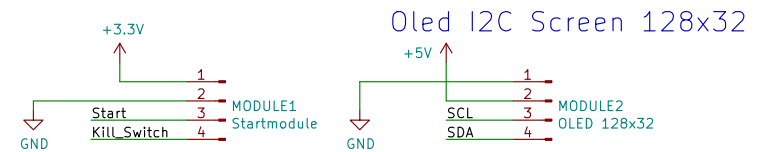
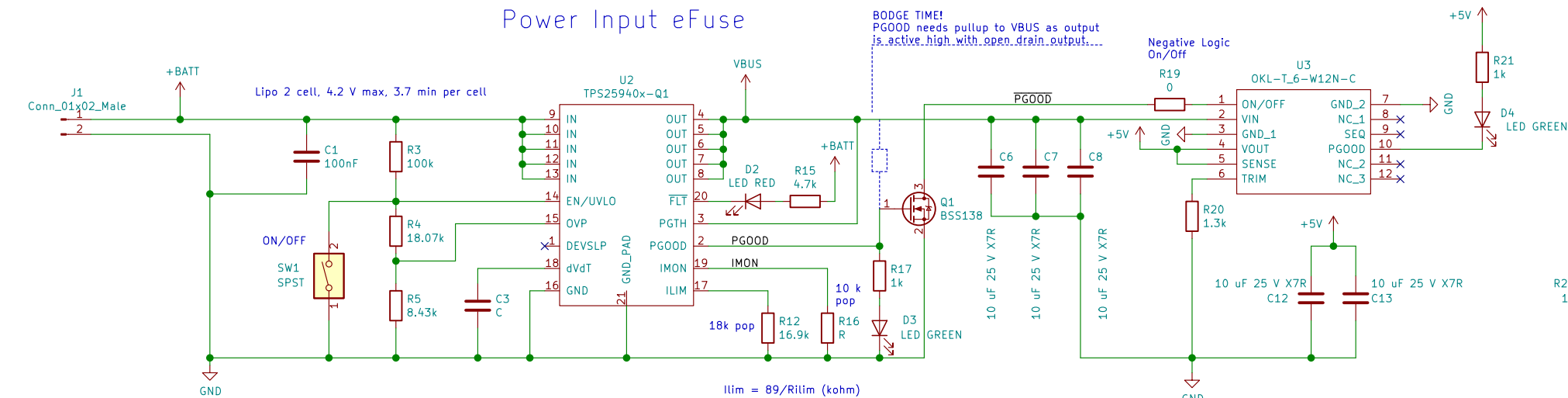
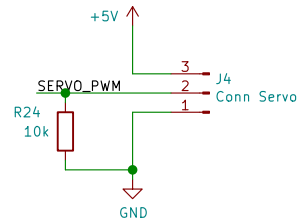


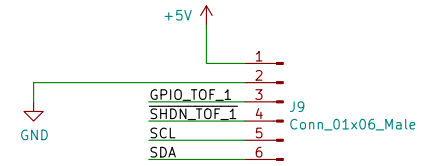
## Power Input eFuse



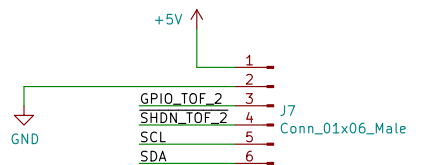
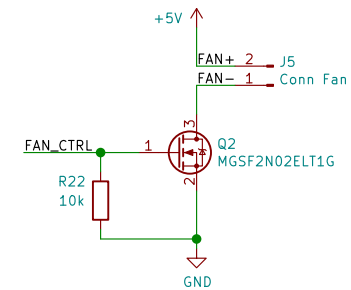
## Servo Connector



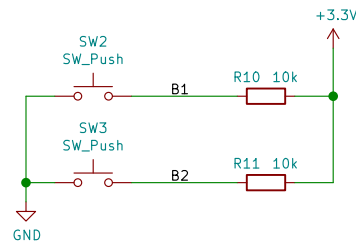
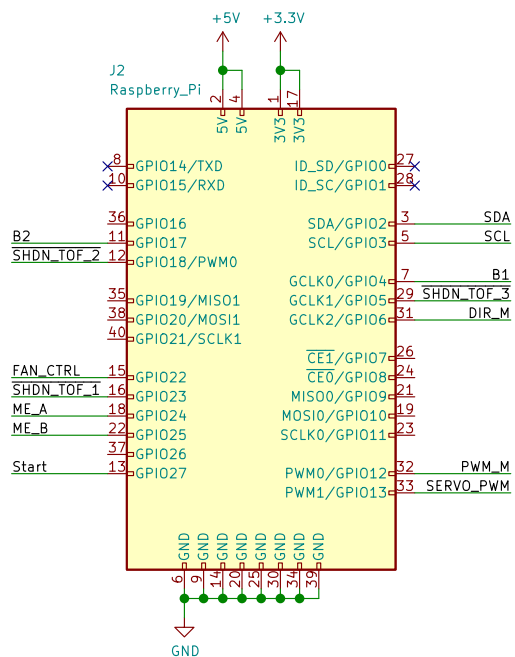
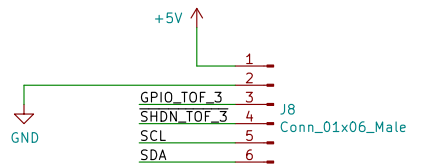
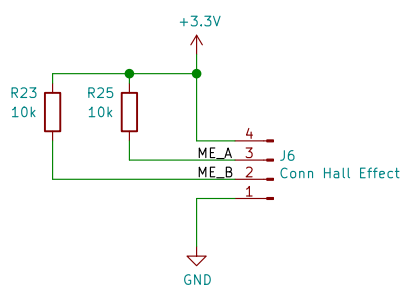
## TOF Sensors



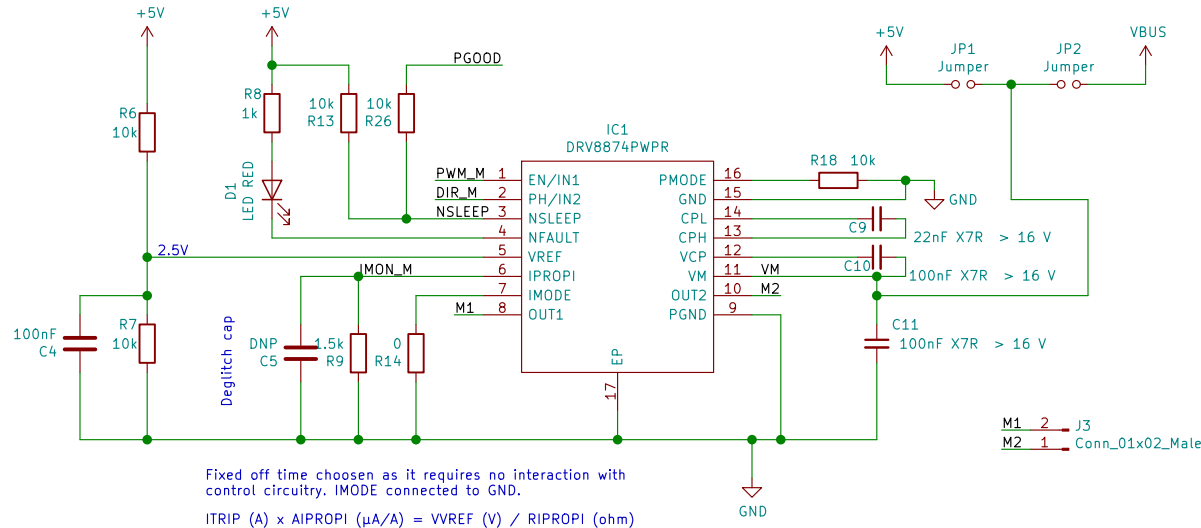
## Fan Control



## Hall effect wheel sensor

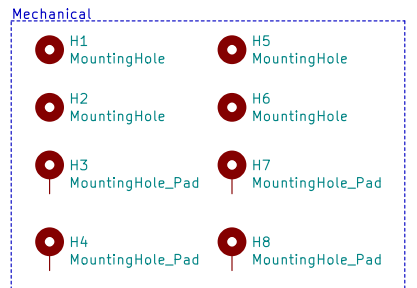


Motor Driver  
PMODE = 0 -> PH/EN Control mode  
nSLEEP = 1 -> Sleep disabled



Fixed off time chosen as it requires no interaction with control circuitry. IMODE connected to GND.

$$ITRIP(A) \times AIPROPI(\mu A) = VREF(V) / RIPROPI(ohm)$$



- Todo:
- \* Add additional eFuse for motor
  - \* Add motor controller
  - \* Add in start module connector & outline for placement
  - \* Change to horizontal connectors
  - \* Add connector for hall-sensor (dir and pulse?)
  - \* dont forget pull-up <https://www.pololu.com/product/3081/specs>
  - \* Decide on connector for motor
  - \* Add connector & PMOS for TOF sensor
  - \* Status LED (RGB) (Neopixel)
  - \* High current driver output
  - \* Button on pin 5? for startup

Noel Danielsson

Sheet: /  
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