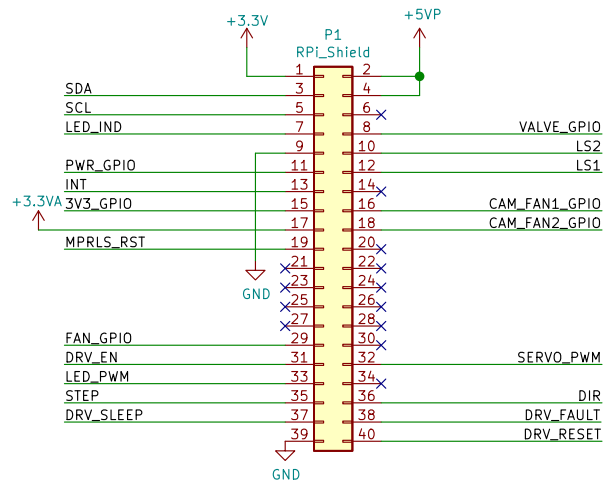


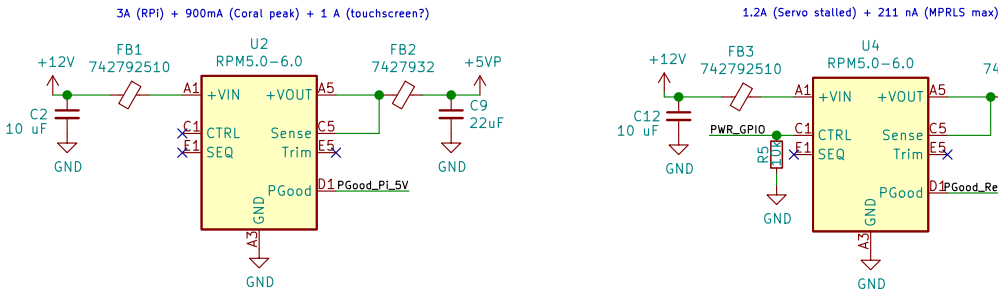
RPi GPIO

Use male-female headers, w/ male side up



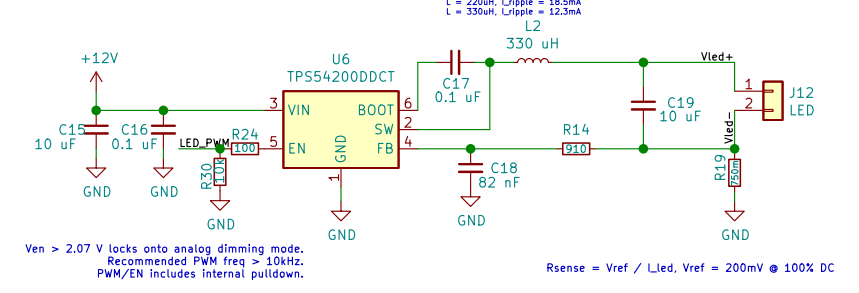
Power

Powered directly off 12V: 120mA (Fan), 0.4A (Motor)



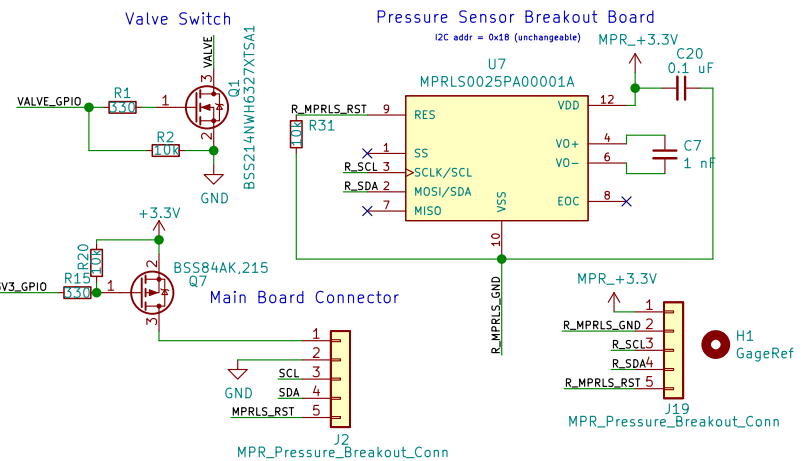
LED Driver

Vf,typ = 3.5V, If,typ = 500mA (run at 250mA)



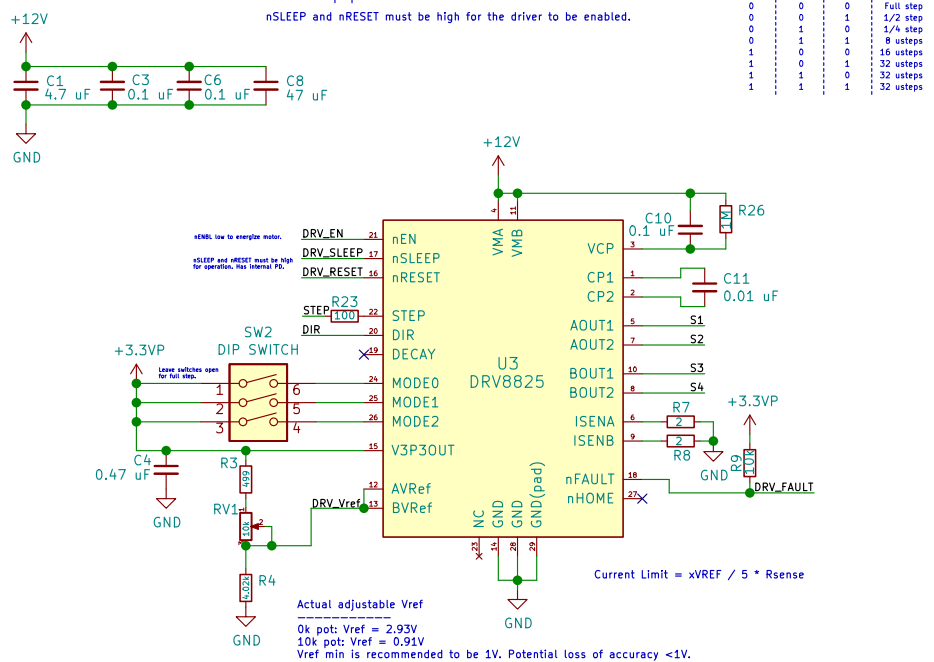
Pneumatic Control

Pressure sensor breakout board will be mounted separately from the PCB.



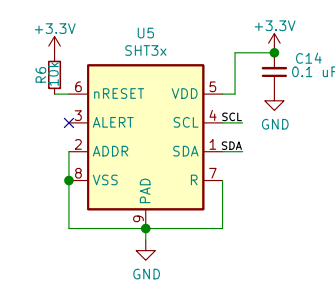
Stepper Motor Control

nSLEEP and nRESET must be high for the driver to be enabled.



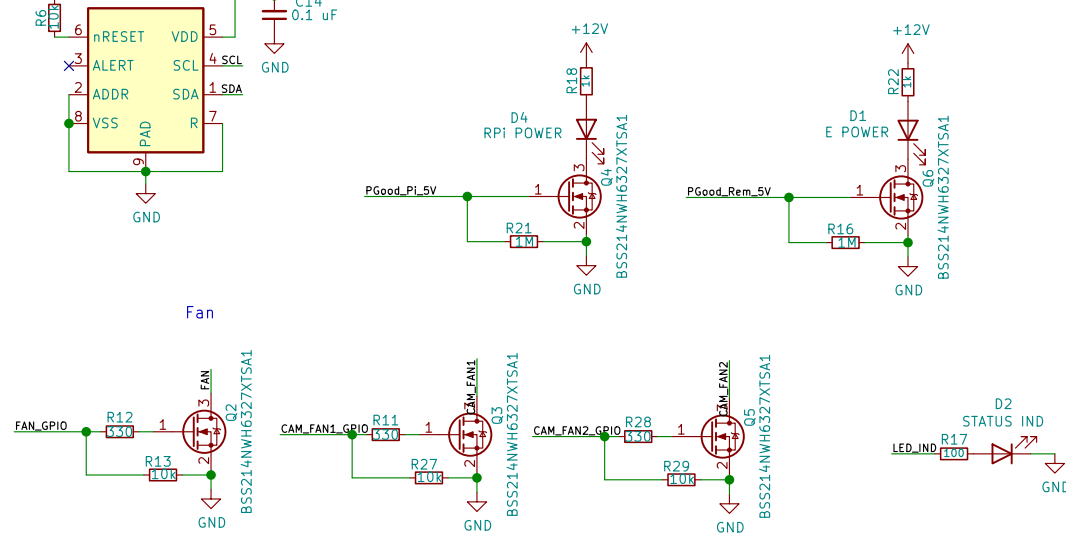
Temp/Humidity Sensor

I2C addr = 0x44

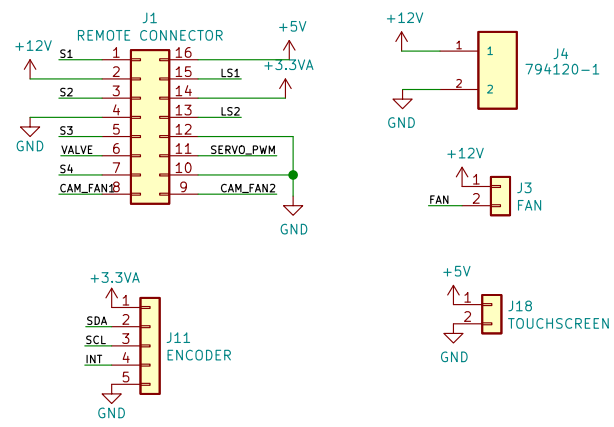


Peripherals

Vf = 2.15V, If (ideal) = approx. 20mA
LED Indicators

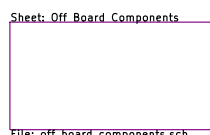


Shield Connectors

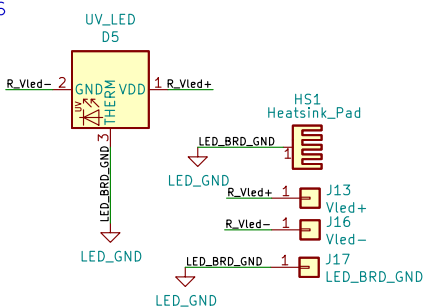


Off Board Components

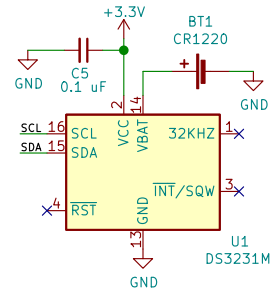
Sheet with components that are mounted off board, but connect to the PCB.



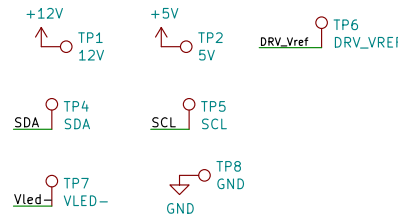
LED Board



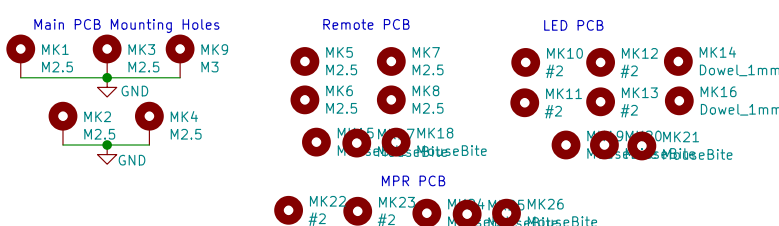
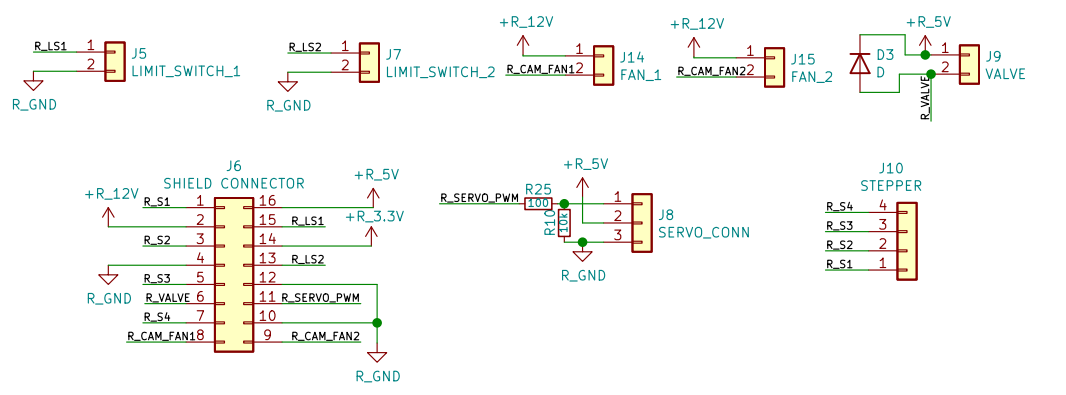
Real Time Clock



Test Points



Remote Board



PN: 5-0005, 5-0006, 5-0008
Bioengineering Platform
Chan Zuckerberg Biohub

Sheet: /
File: ulc-mm.sch
Title: Label Free Malaria Scope

Size: A3 Date: 2021-09-14
KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: A
Id: 1/2

A



C



A

B

