

A

A

B

B

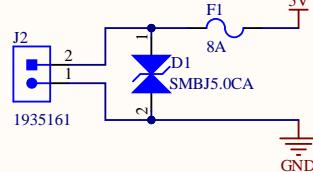
C

C

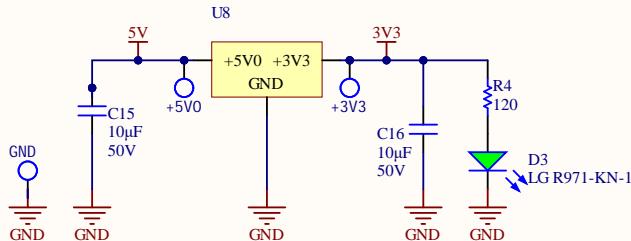
D

D

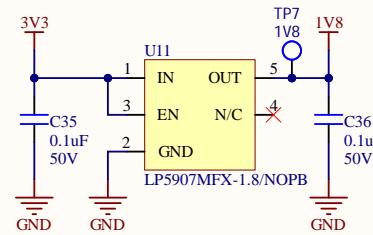
Power In



5V to 3V3 LDO



3.3V to 1.8V LDO

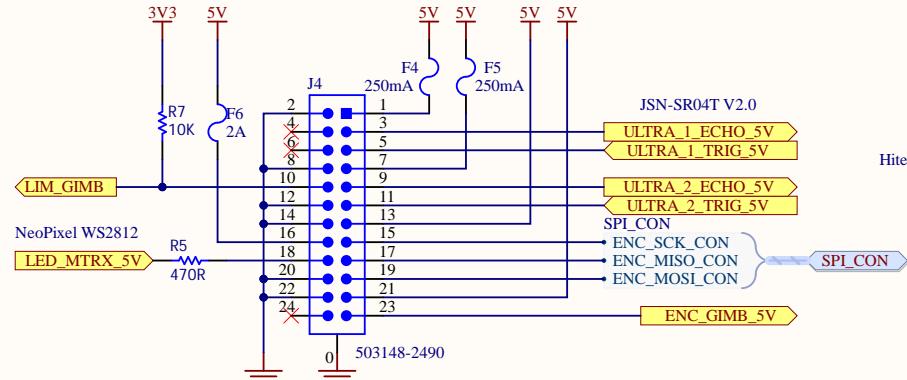


Current Calculations

Green LED voltage drop: 2.2V
 $- I = (3.3 - 2.2V)/120 = 10.83mA$

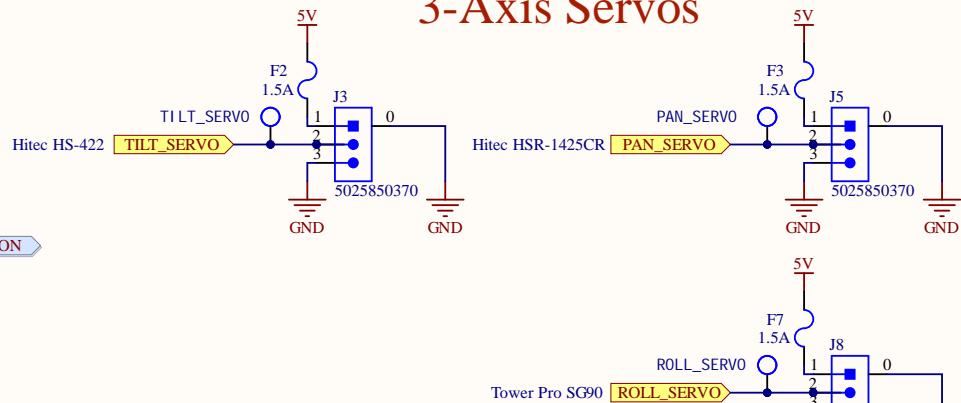
Sensors/Limit Switch/LED Matrix

A



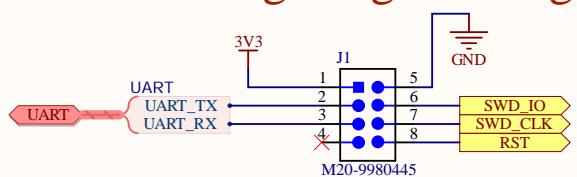
3-Axis Servos

A

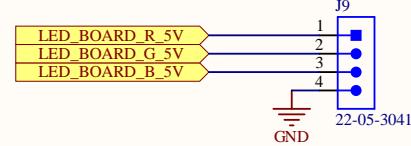


B

Debug/Programming



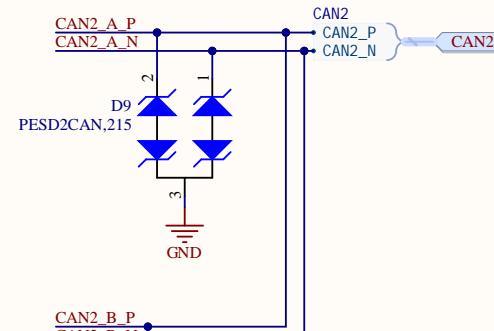
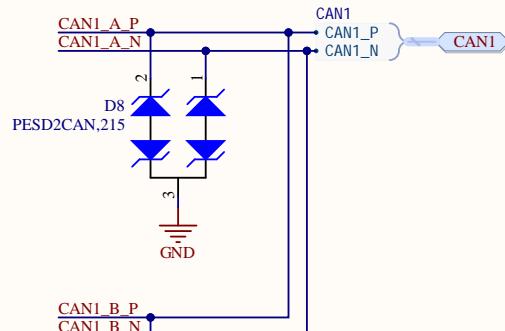
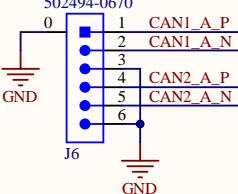
LED Matrix PCB



CAN Protection

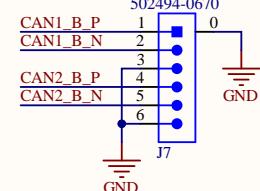
C

CAN In



D

CAN Out



Title Gimbal - Connectors

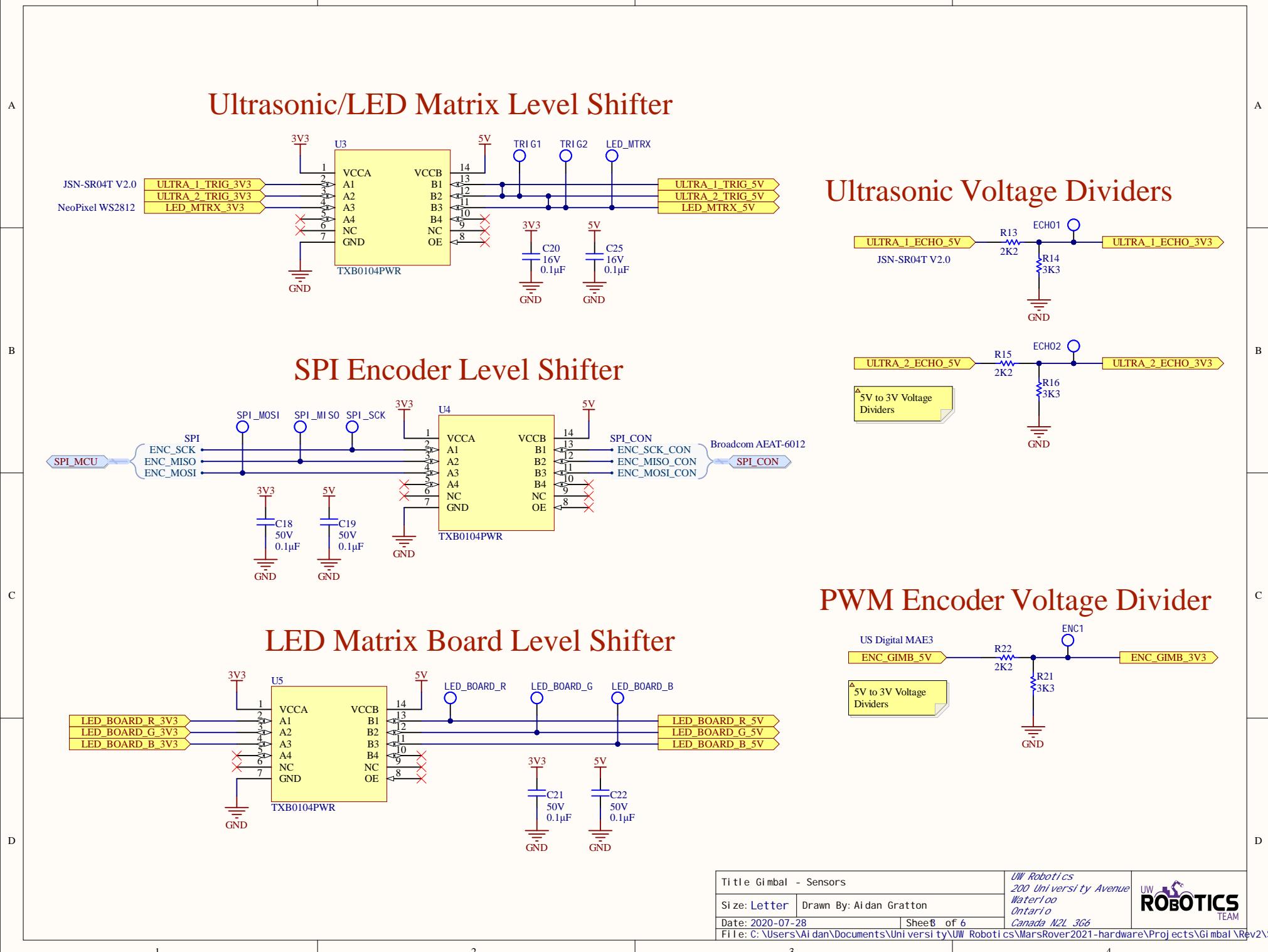
Size: Letter

Drawn By: Aidan Gratton

Date: 2020-07-28

Sheet 2 of 6

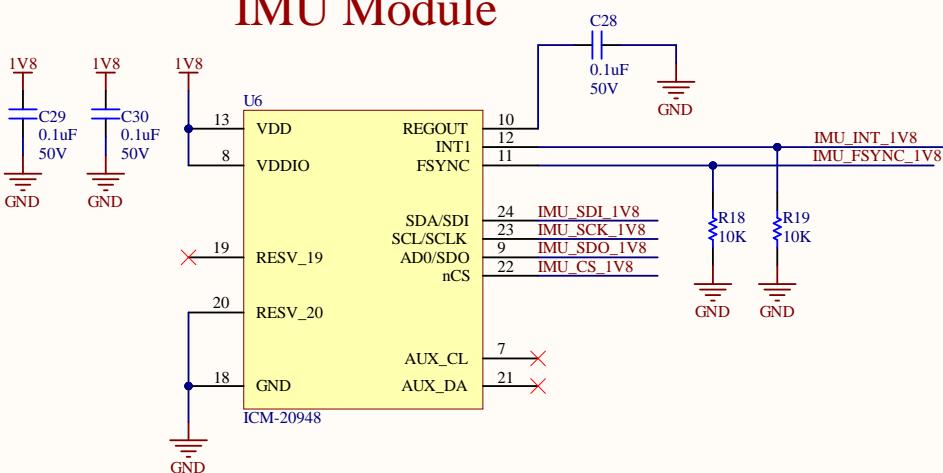
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A

A

IMU Module



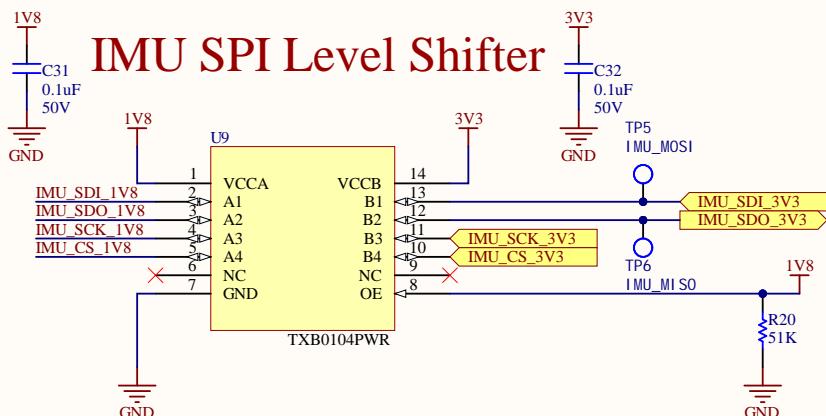
B

B

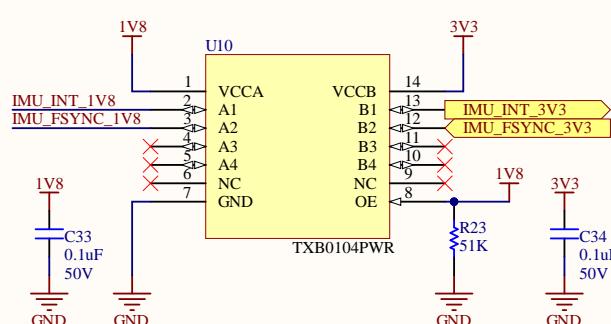
C

C

IMU SPI Level Shifter



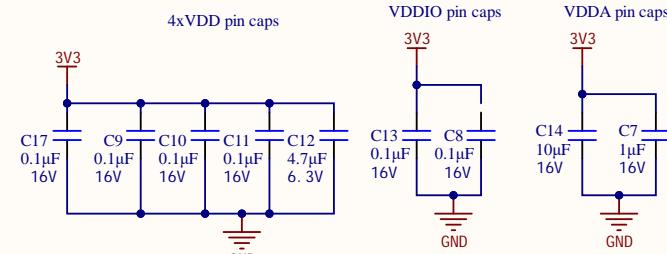
IMU Interrupts Level Shifter



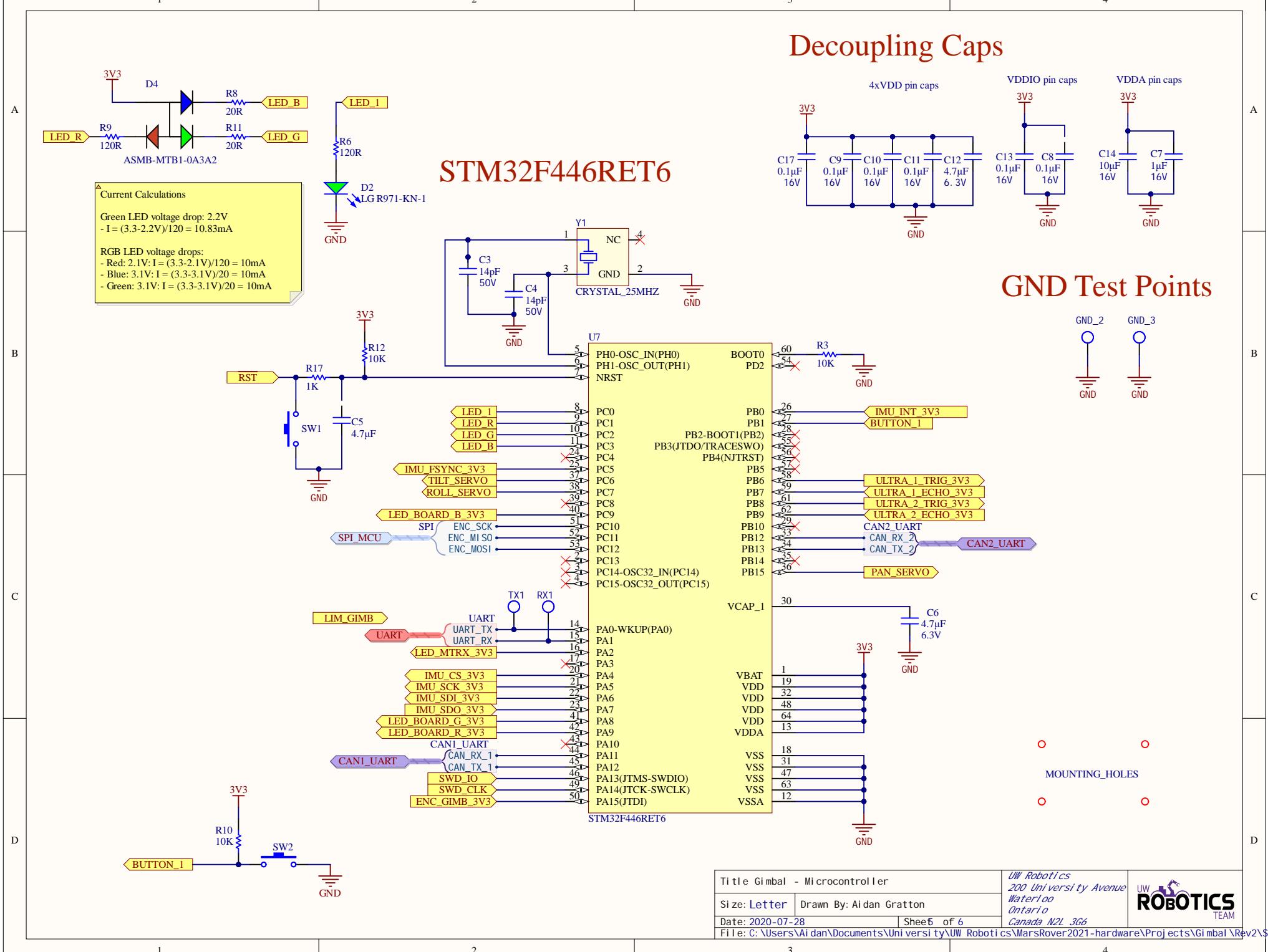
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D

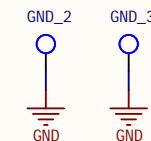
Decoupling Caps



STM32F446RET6



GND Test Points



A

B

C

D

CAN Transceivers

A

A

B

B

C

C

D

D

