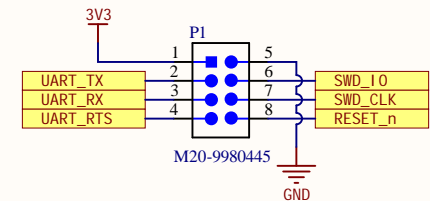


Debug/Programming



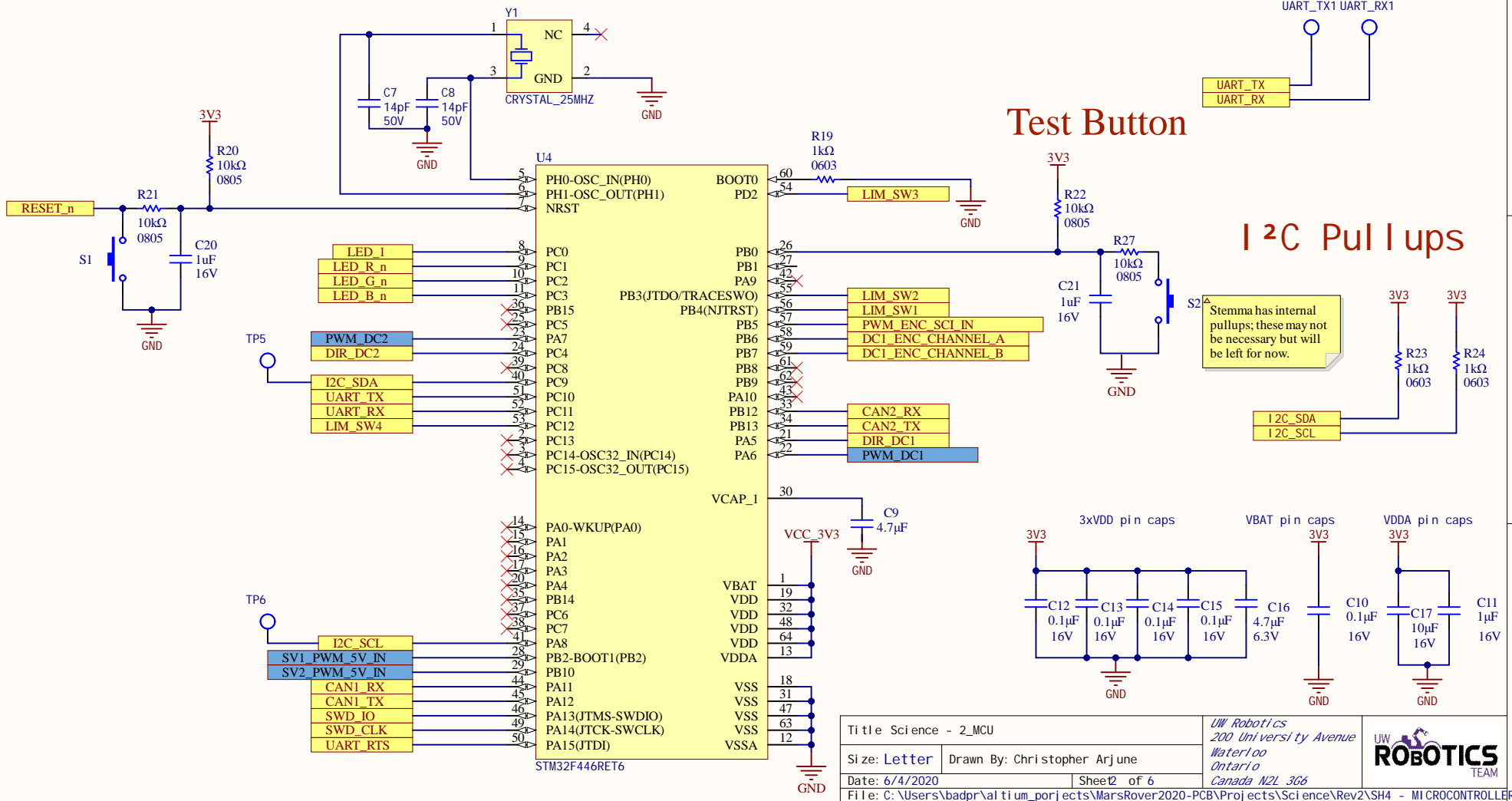
Current Calculations

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

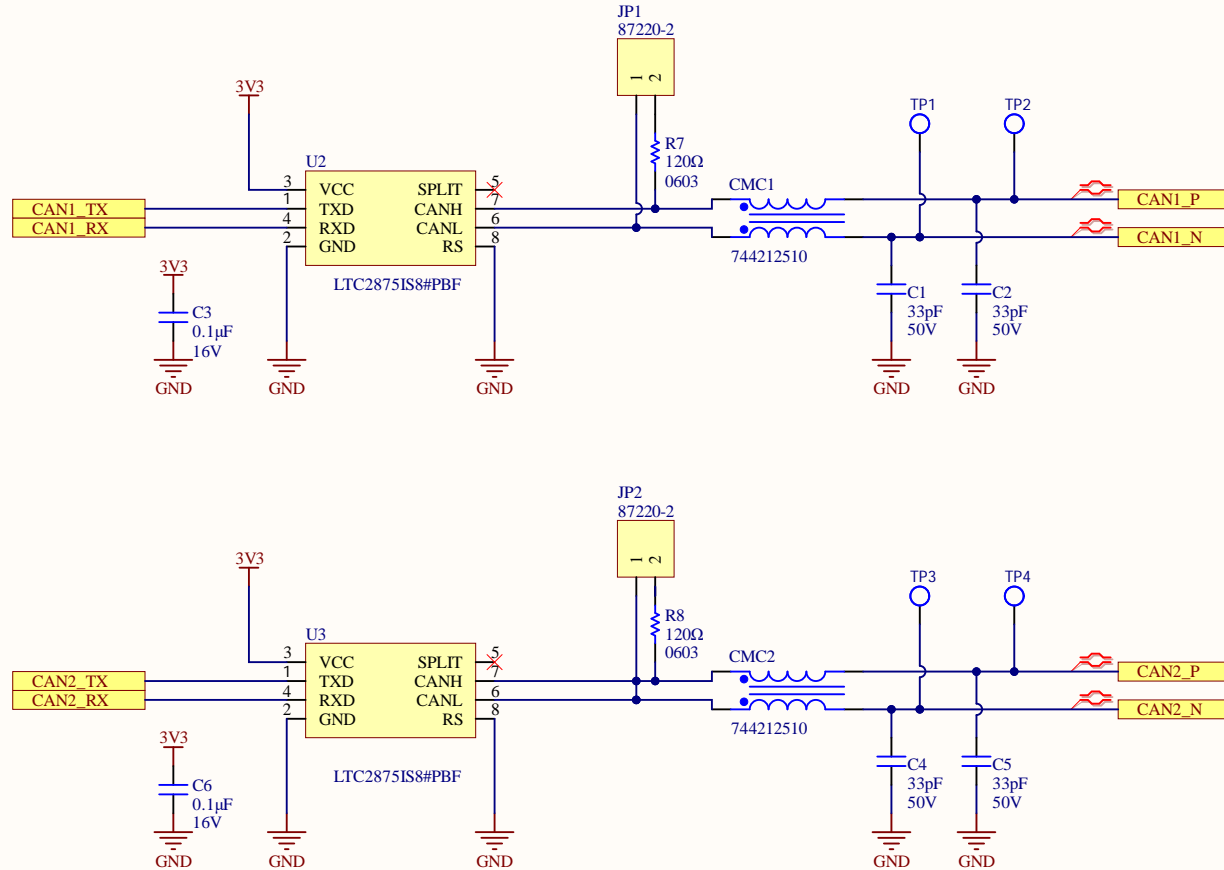
RGB LED voltage drops:
 - Red: 2.1V: $I = (3.3 - 2.1V) / 120 = 10mA$
 - Blue: 3.1V: $I = (3.3 - 3.1V) / 20 = 10mA$
 - Green: 3.1V: $I = (3.3 - 3.1V) / 20 = 10mA$

ADD DEBOUNCING FOR BUTTONS

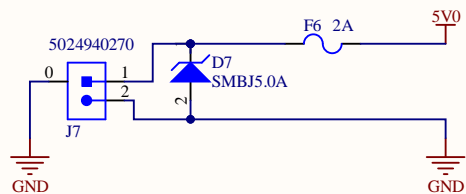
Testpoints



CAN Transceivers



REPLACE POWER CONNECTOR



REPLACE LDO WITH BUCK CONVERTER

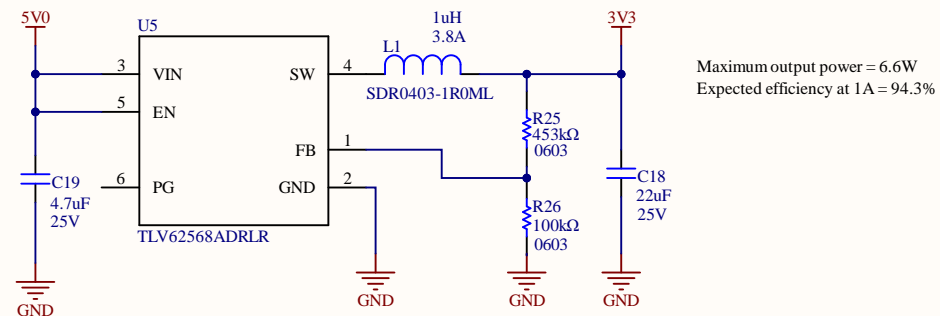
5V - 3.3V Buck Converter

Designed for 3.3V - 5V input

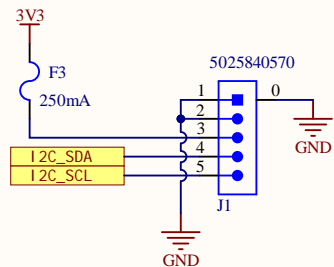
Route for 1A in

Inductor: SDR0403-1R0ML
1uH, 20%, 33mOhm DCR (max)
3.8A (rms), 5.5A (sat), 3.2mm tall

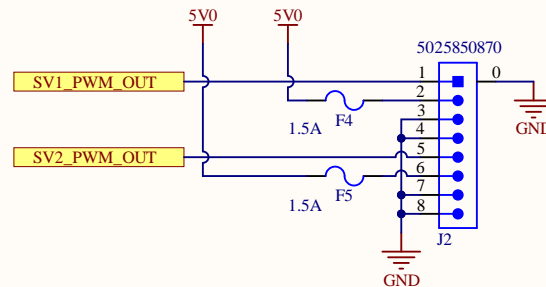
Route for 3A out



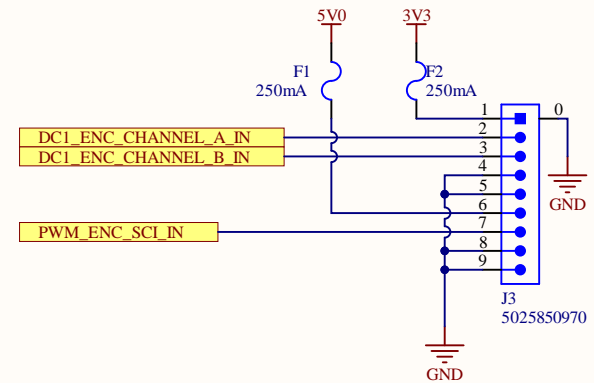
I²C Sensors



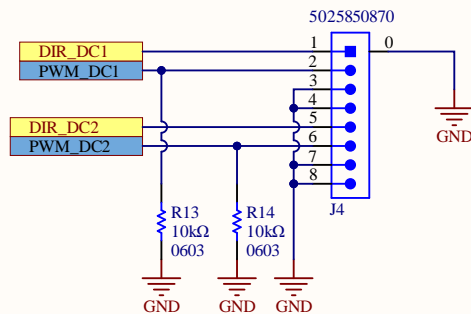
Servos



Encoders

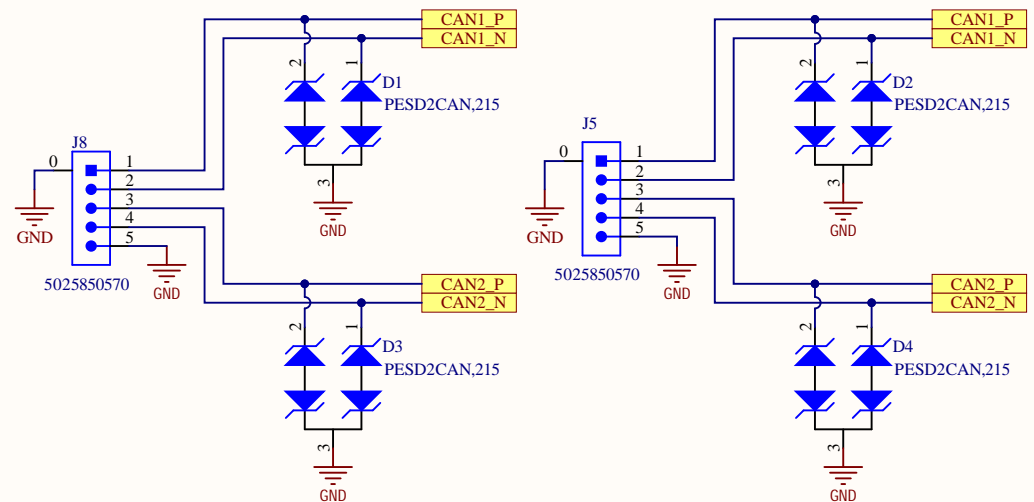


DC Motors

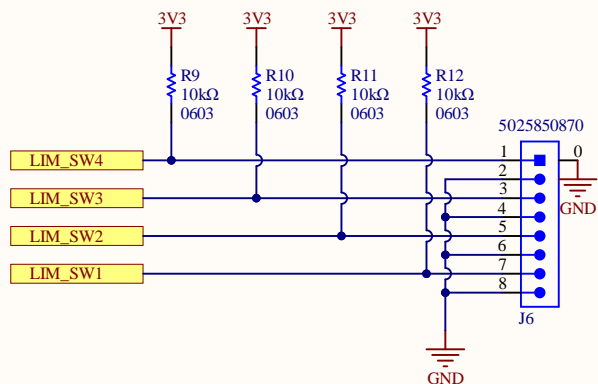


SEPARATE CAN IN AND CAN OUTPUT COM

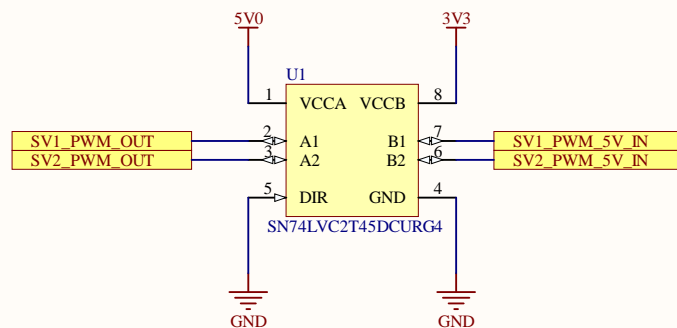
CAN



Limit Switches



Servo Level Shifters



Encoder Voltage Dividers

5V - 3V Conversion

