

A

A

B

B

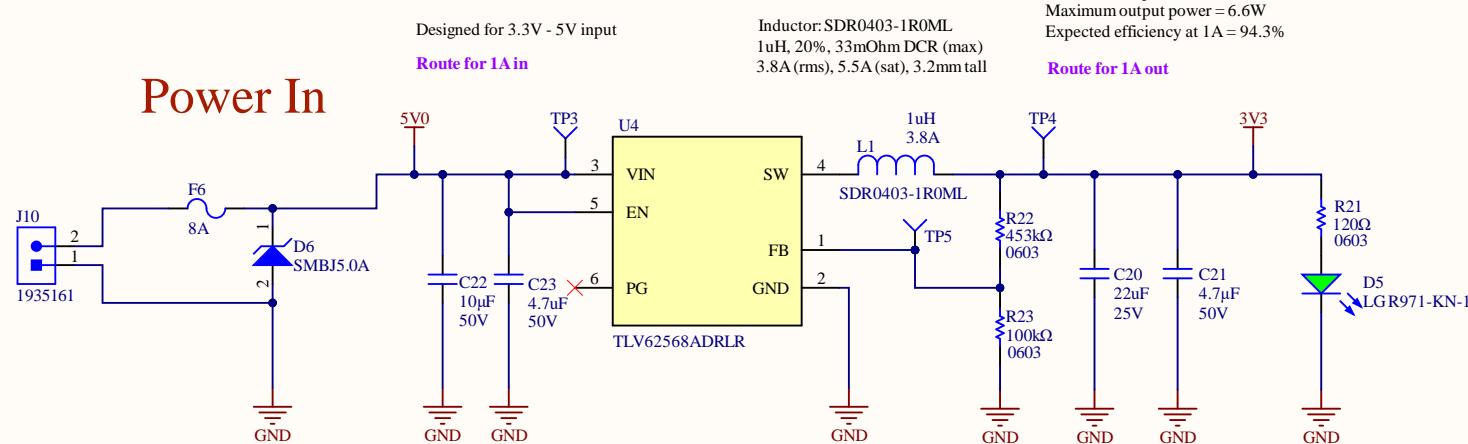
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C

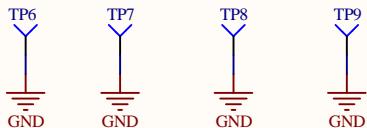
D

D

5V - 3.3V Buck Converter



GND Test Points



Mounting Holes

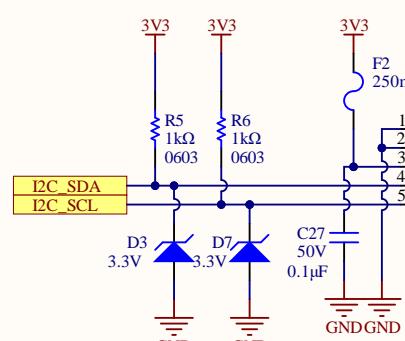


Current Calculations

Green LED voltage drop: 2.2V
 $-I = (3.3-2.2V)/120 = 9.17mA$

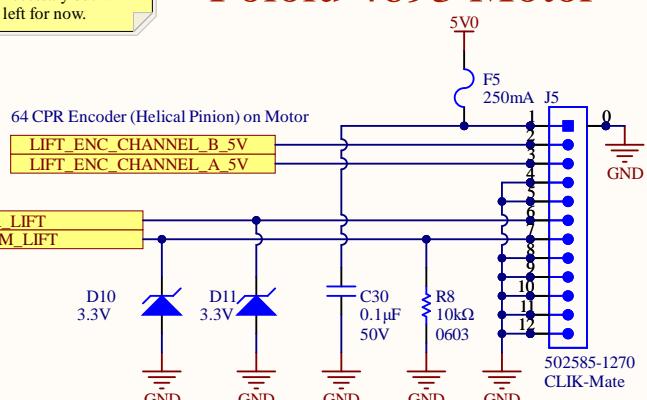
Title: Science - Power	UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6
Size: Letter	Drawn By: Wolfgang Windholz
Date: 11/2/2020	Sheet 1 of 5
File: C:\Users\Wolfgang.Windholz\OneDrive\Projects\MarsRover2021-hardware\Projects\Science\Rev2\SH1 - P0	UW ROBOTICS TEAM

STEMMA Moisture Sensor

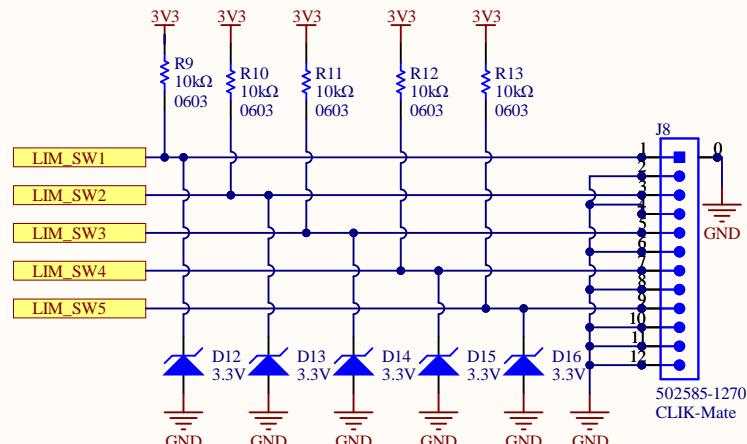


A
Stemma has internal pullups; these may not be necessary but will be left for now.

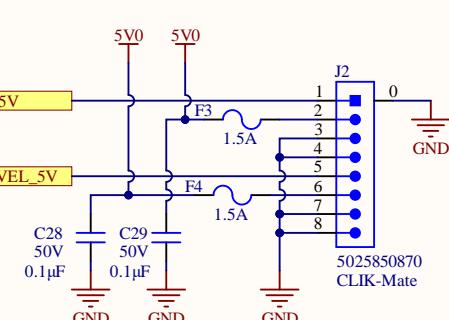
Pololu 4693 Motor



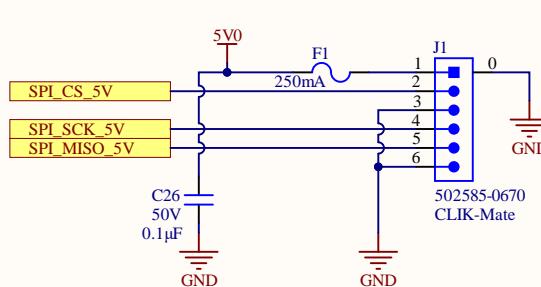
Limit Switches



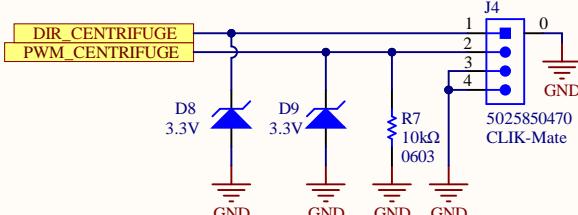
Servos



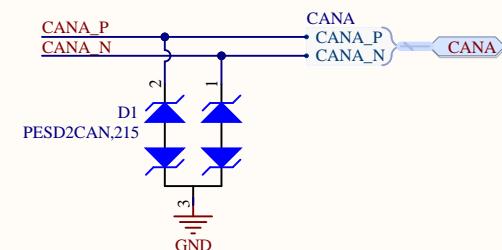
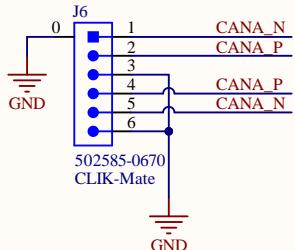
Broadcom AEAT6012 Encoder



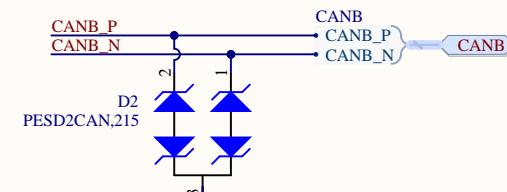
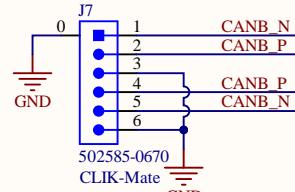
Pololu 4685 Motor



CAN BUS A



CAN BUS B



A

A

B

B

C

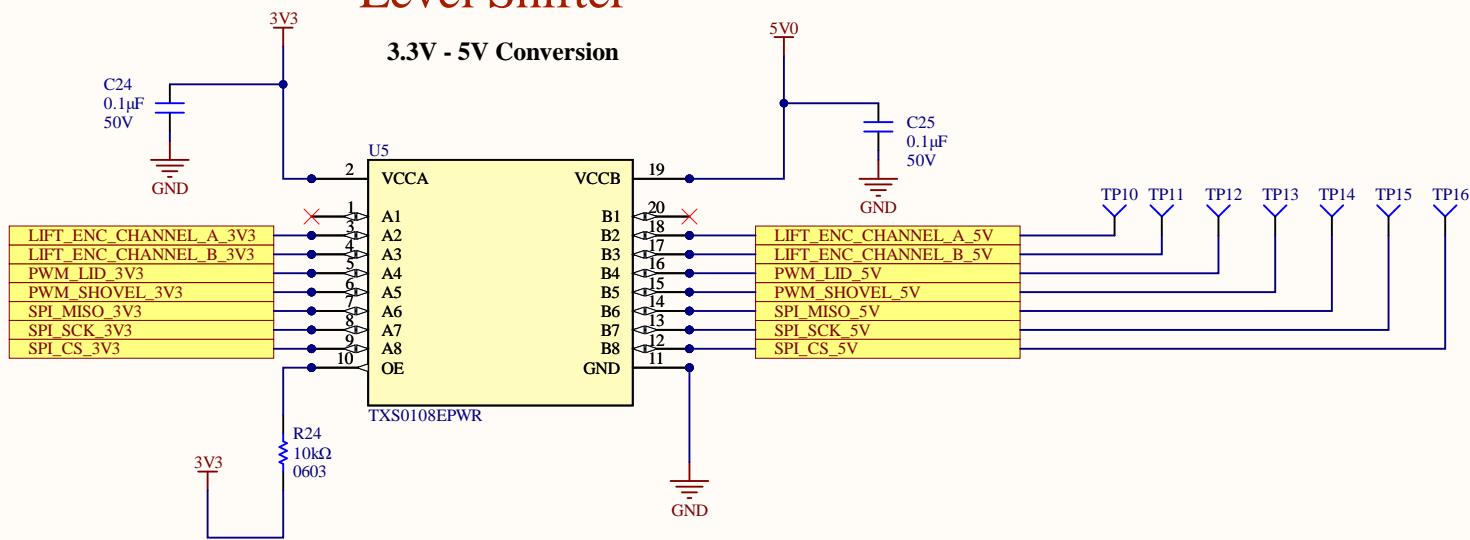
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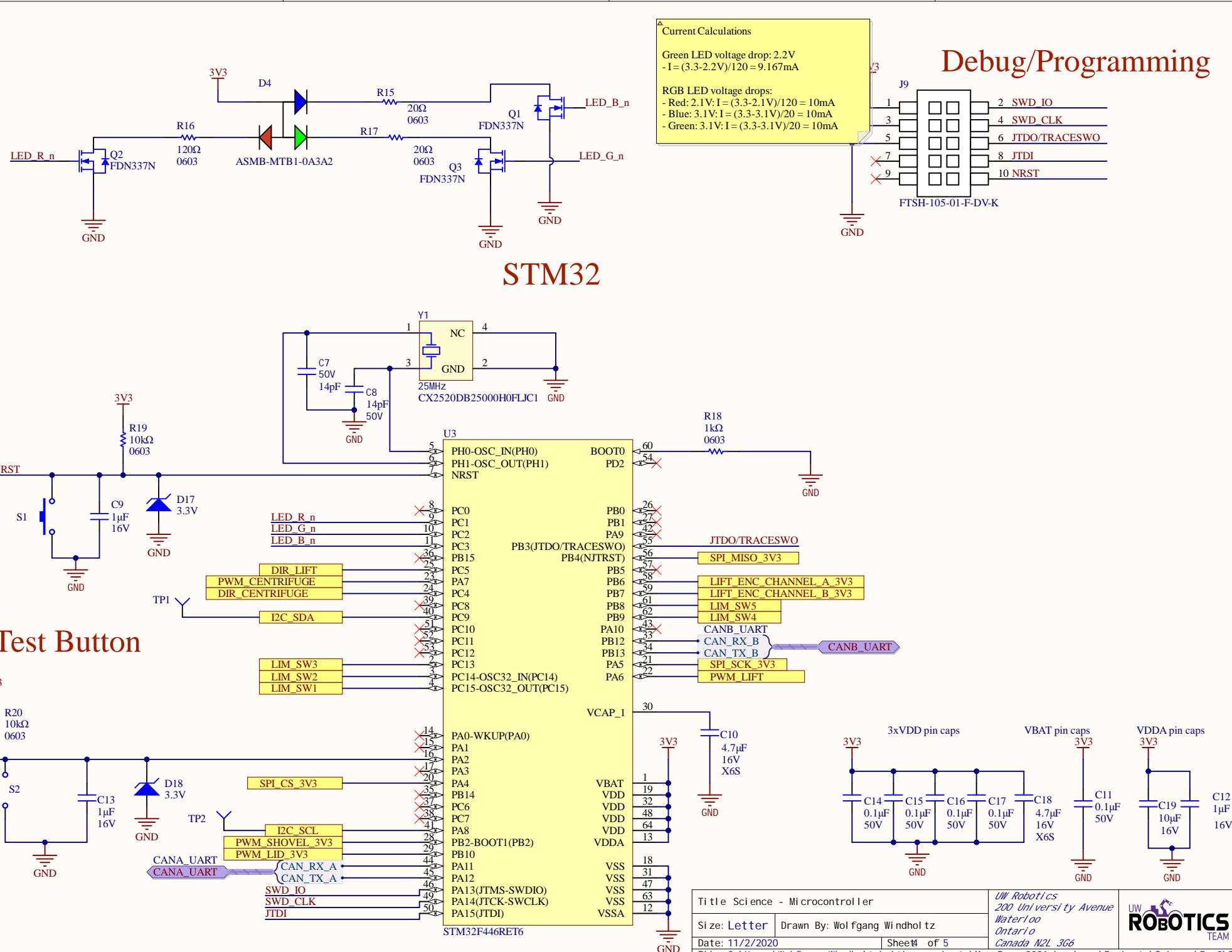
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Level Shifter

3.3V - 5V Conversion

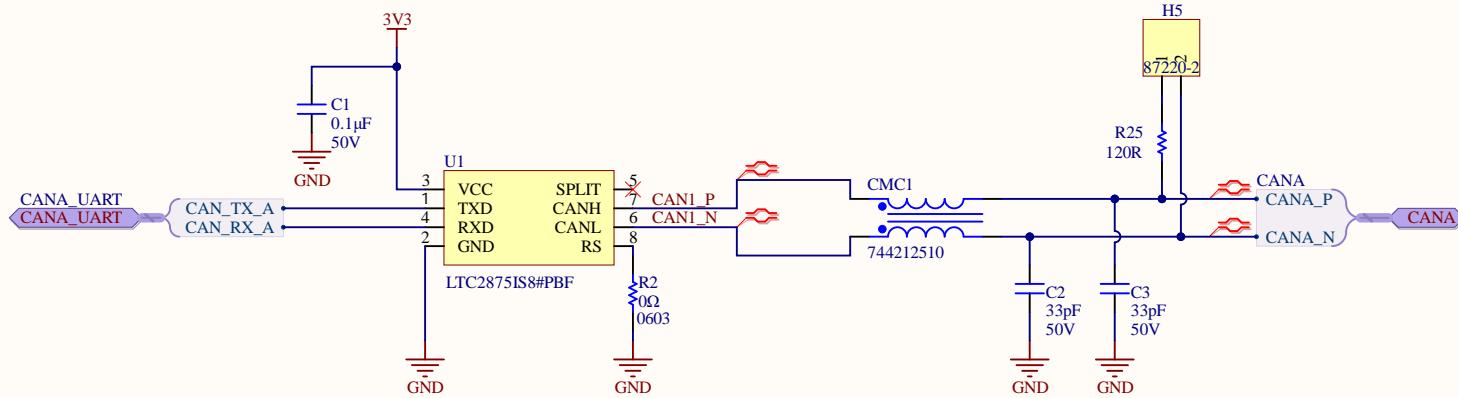




A

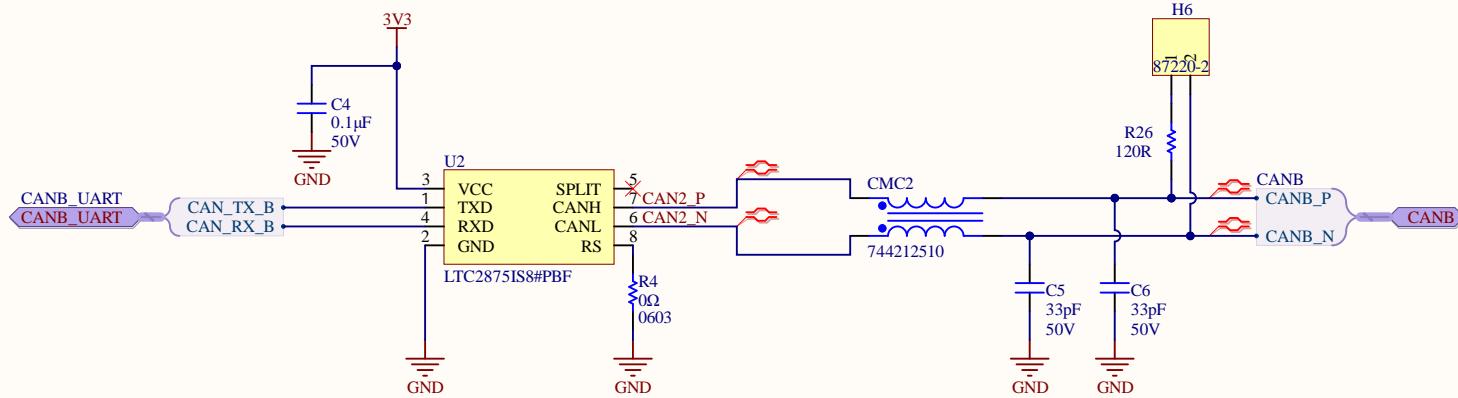
A

CAN Transceivers



B

B



C

C

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