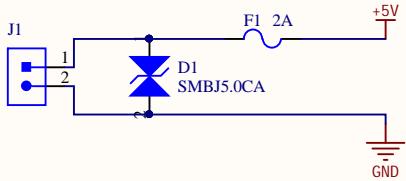


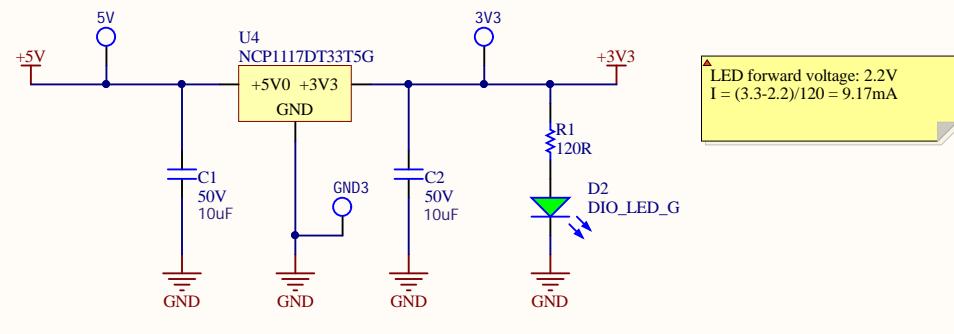
A

A

Power In



LDO Voltage Regulator



B

B

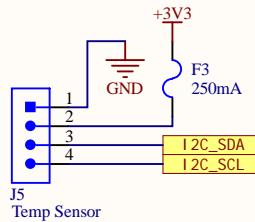
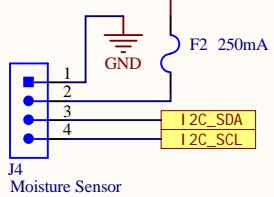
C

C

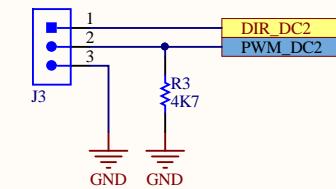
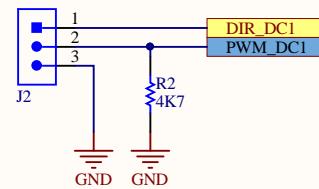
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D

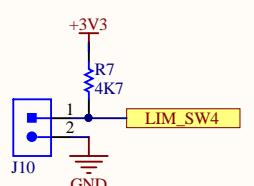
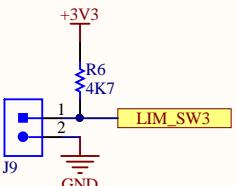
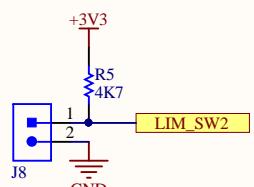
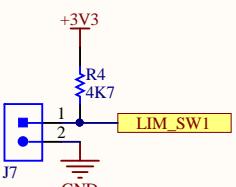
Sensors



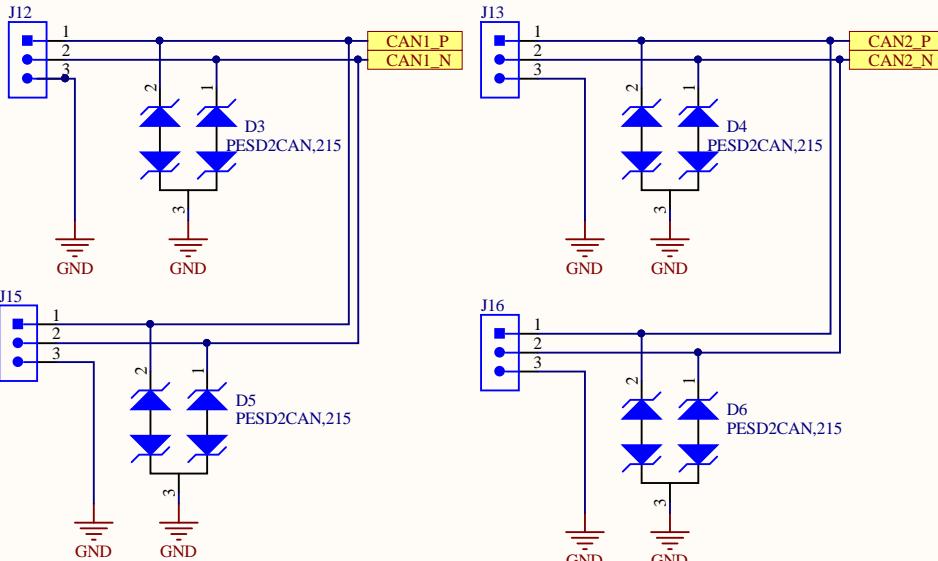
DC Motors



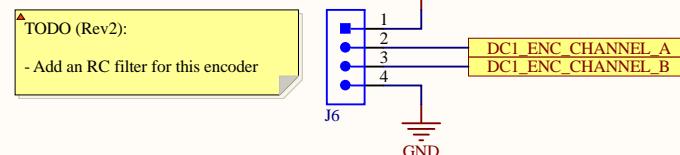
Limit Switches



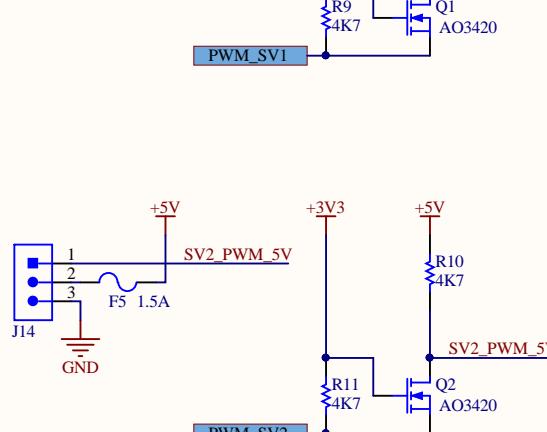
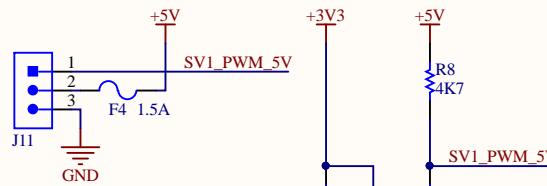
CAN Connectors



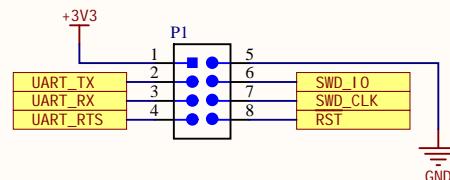
► TODO (Rev2):
- Add an RC filter for this encoder



Servos



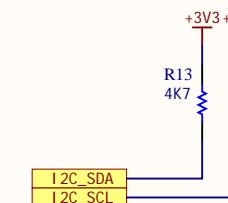
Debug/Programming



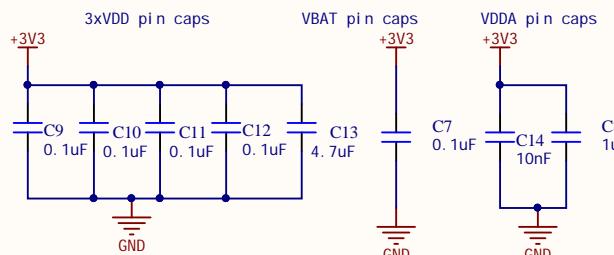
Testpoints



I²C Pull-ups



Decoupling Caps



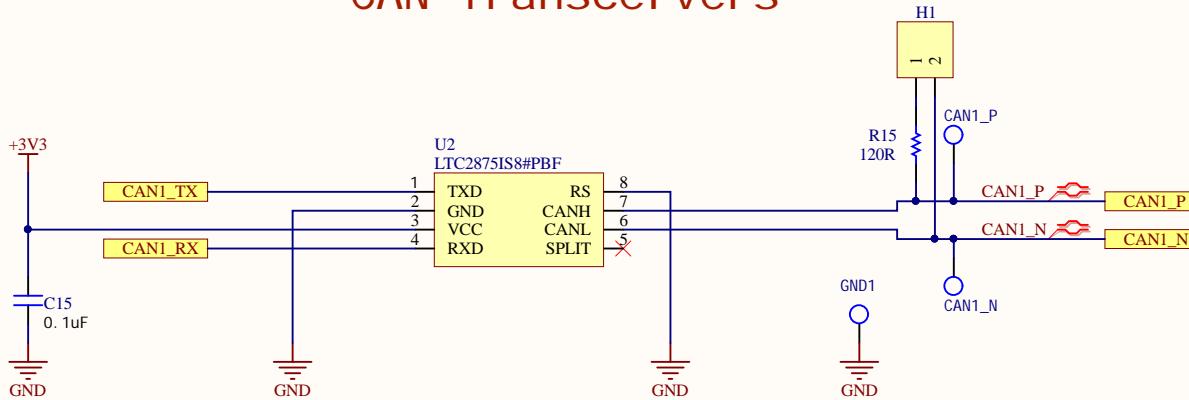
A

A

CAN Transceivers

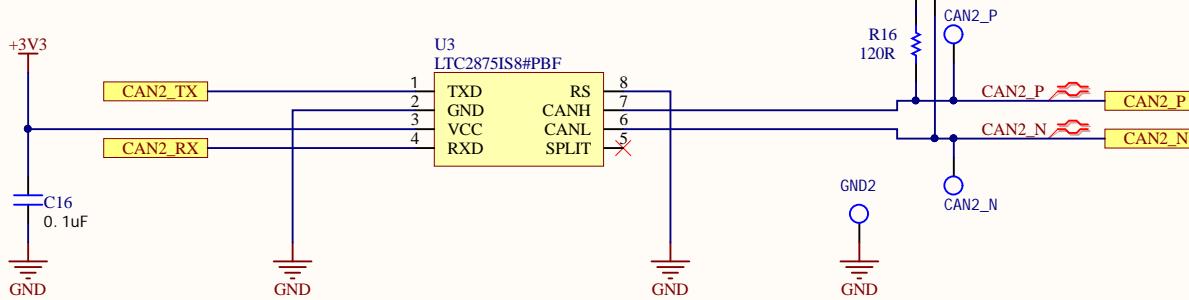
B

B



C

C



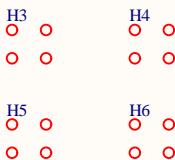
D

D

Title: Science - CAN		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6
Size: Letter	Drawn By: C. Arjune	
Date: 2020-02-01	Sheet 1 of 5	
File: C:\Users\lance\Desktop\MarsRover2020-PCB\Projects\Science\Rev1\sch\CAN.SchDoc		

A

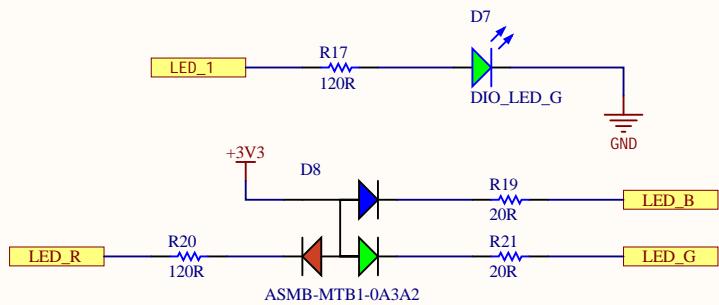
Mounting Holes



A

B

Test LEDs



Current Calculations

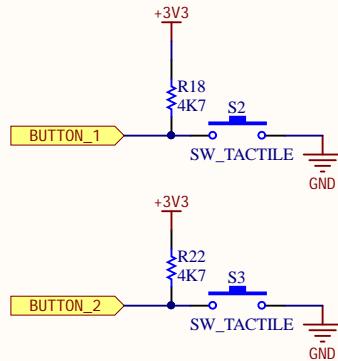
Green LED voltage drop: 2.2V
 $- I = (3.3-2.2V)/120 = 10.83mA$

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: $I = (3.3-3.1V)/20 = 10mA$

B

Test Buttons



C

D

