

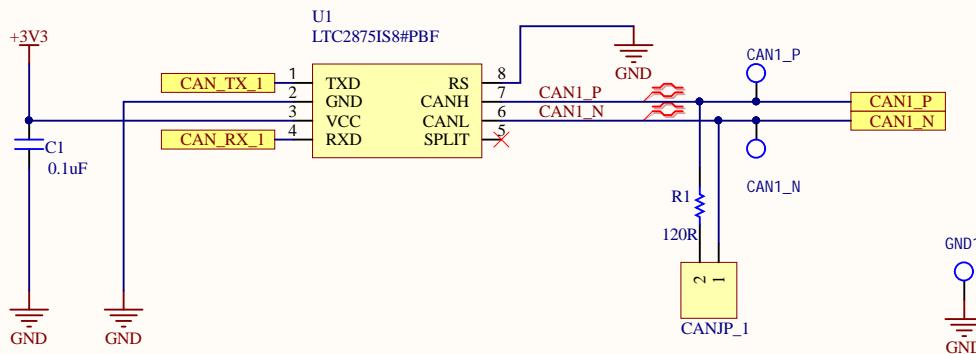
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CAN Transceivers

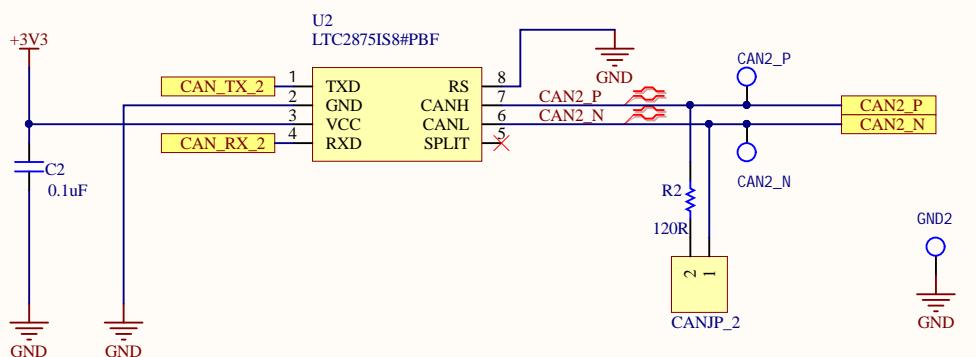
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C

C

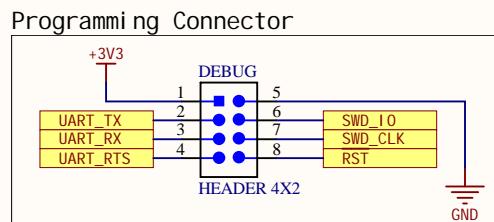
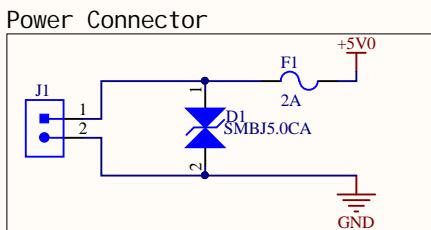


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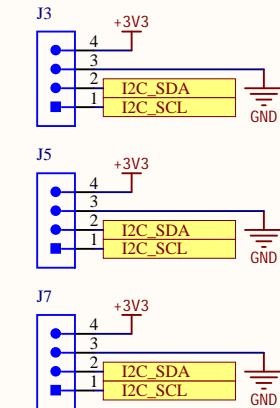
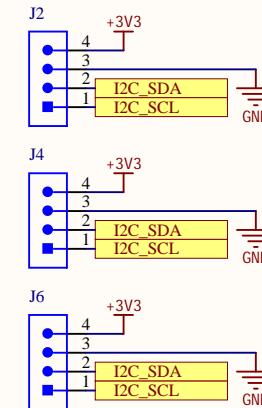
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Date: 2020-02-01	Sheet of		
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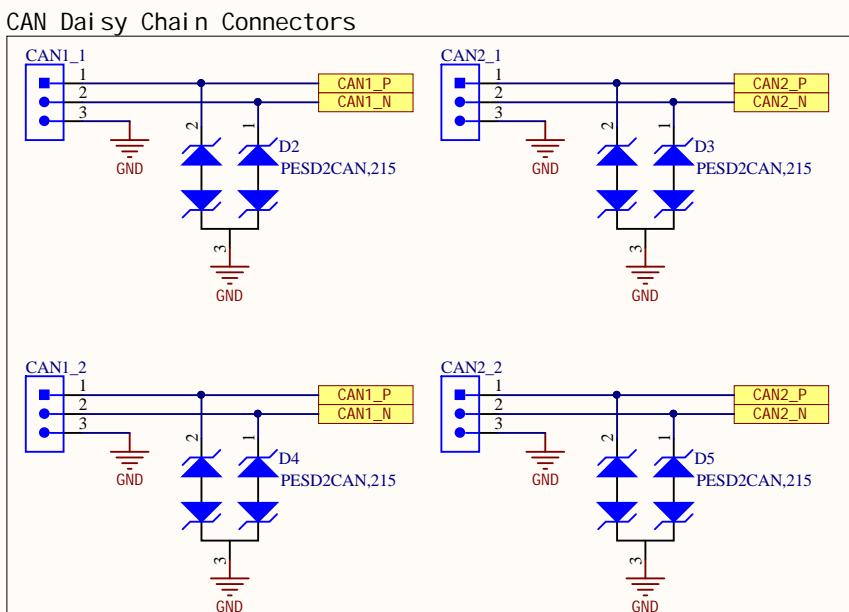
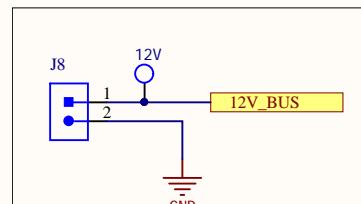
Connectors



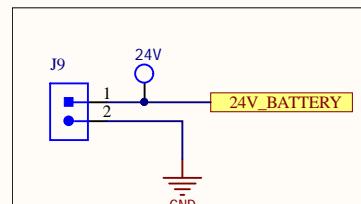
I₂C Current Sensors



Motor Voltage



Battery Voltage



Title Connectors

Size: Letter | Drawn By: Qin Yang Bao, Nicole Rosario

Date: 2020-02-01 | Sheet of

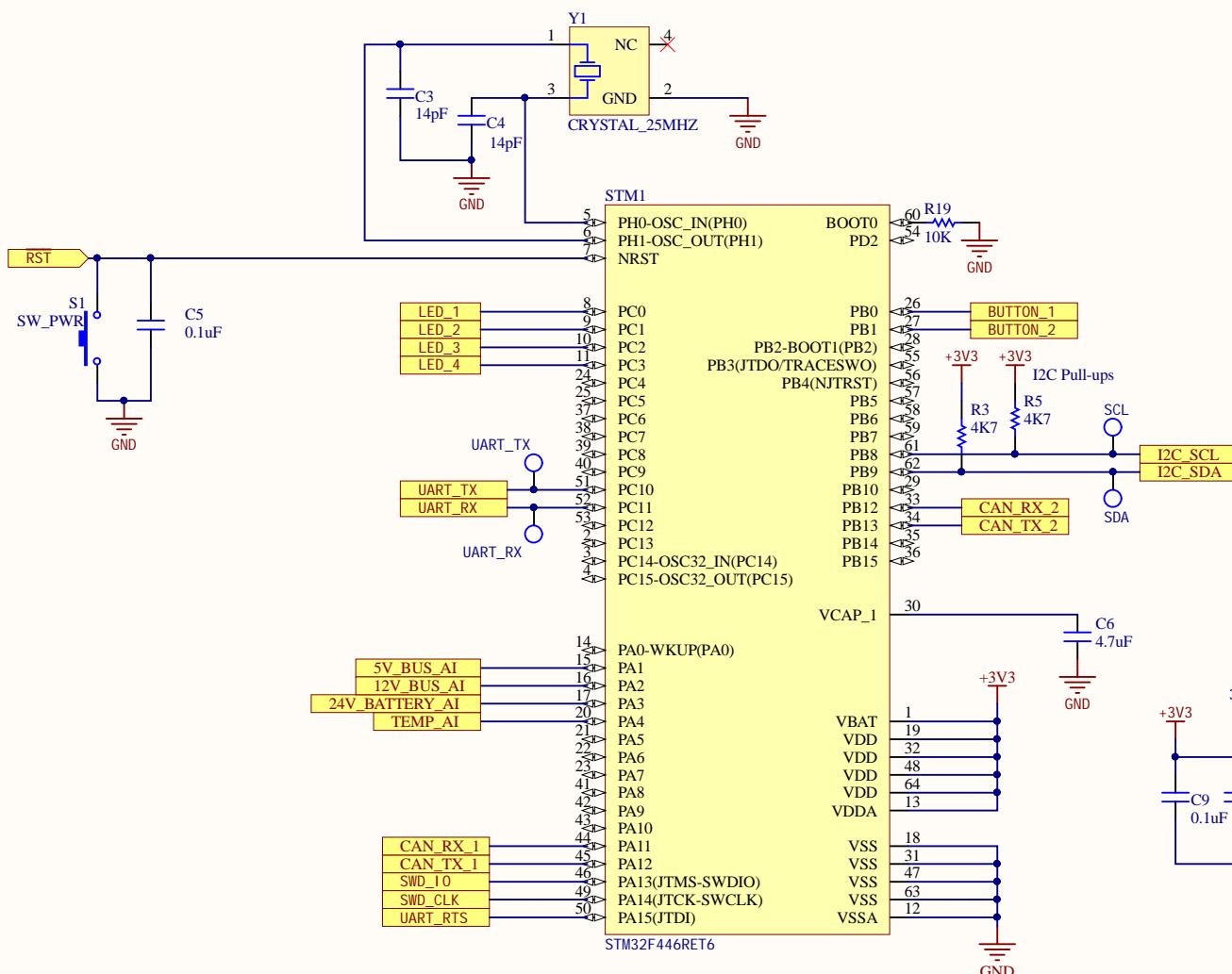
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200 University Avenue
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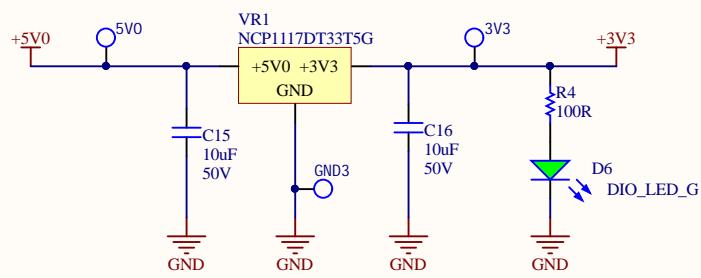
STM32F446RET6



Bypass Capacitors

Title: MCU		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6	
Size: Letter	Drawn By: Qinyang Bao, Nicole Rosario		
Date: 2020-02-01		Sheet of	
File: C:\Users\lance\Desktop\MarsRover2020-PCB\Projects\Safety\Rev1\sch\MCU.SchDoc			

5V-3.3V LDO

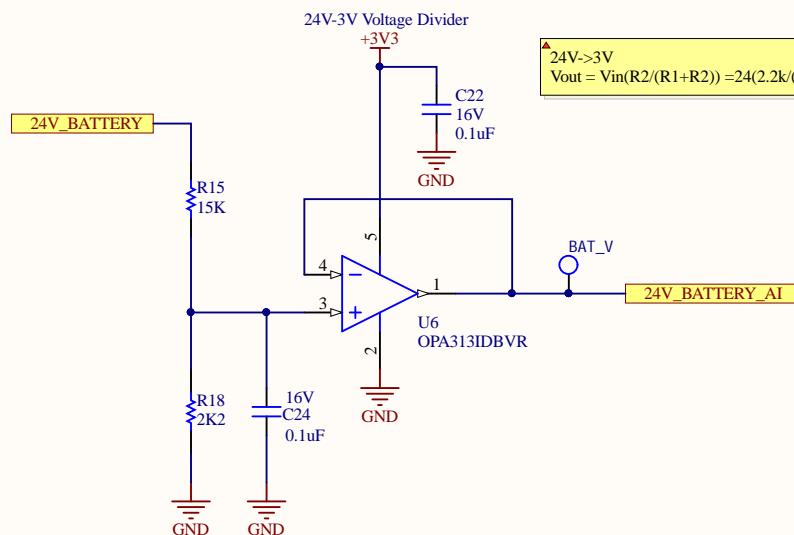
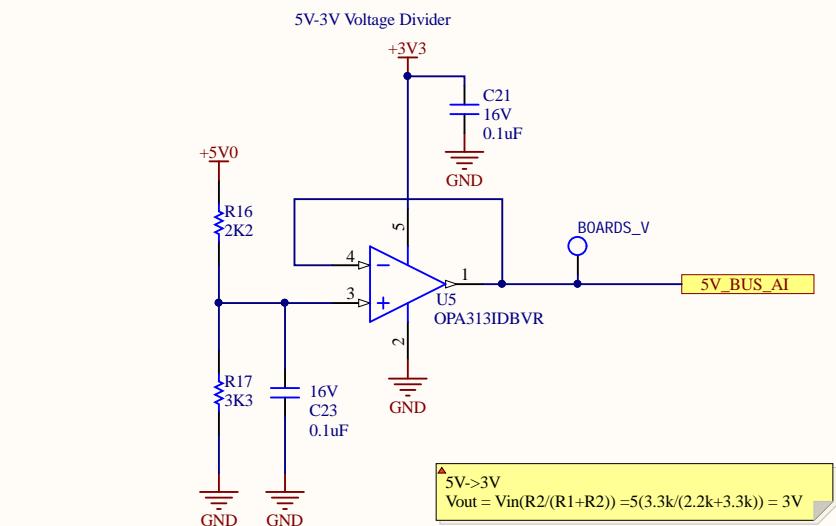
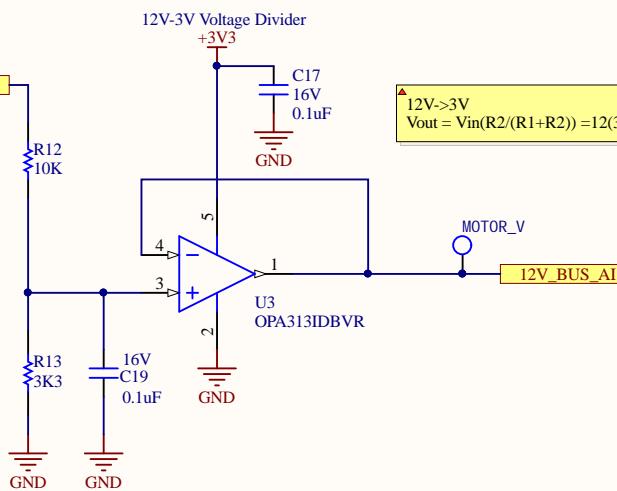
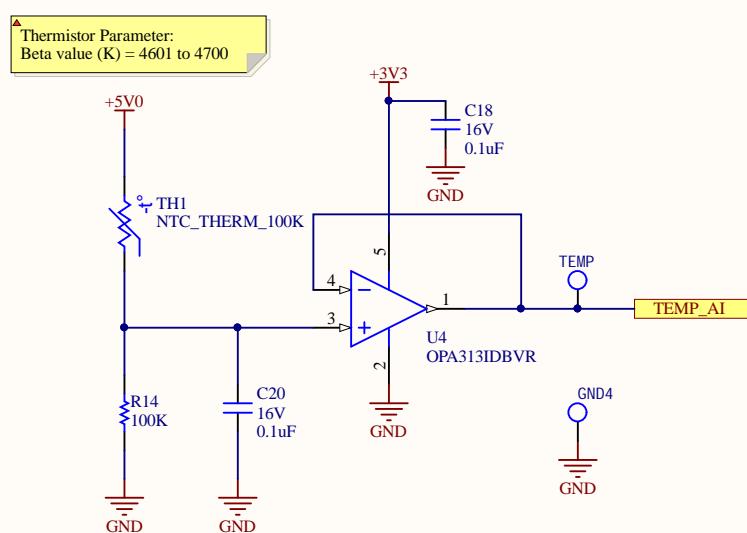


Current Calculations

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

Title Power		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6
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Date: 2020-02-01	Sheet of	
File: C:\Users\lance\Desktop\MarsRover2020-PCB\Projects\Safety\Rev1\sch\POWER.SchDoc		UW ROBOTICS TEAM

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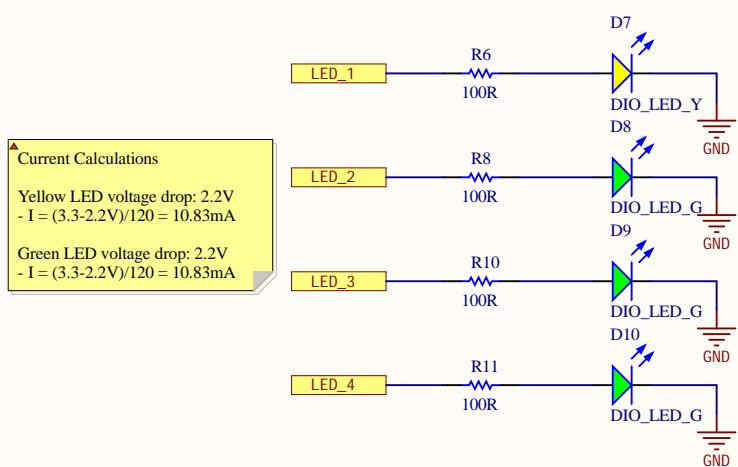
D

▲ Rev 2 TODO:
Consider putting two resistors in series for 24-3 voltage divider to reduce BOM line items

A

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Test LEDs



Test Buttons

