

A

A

B

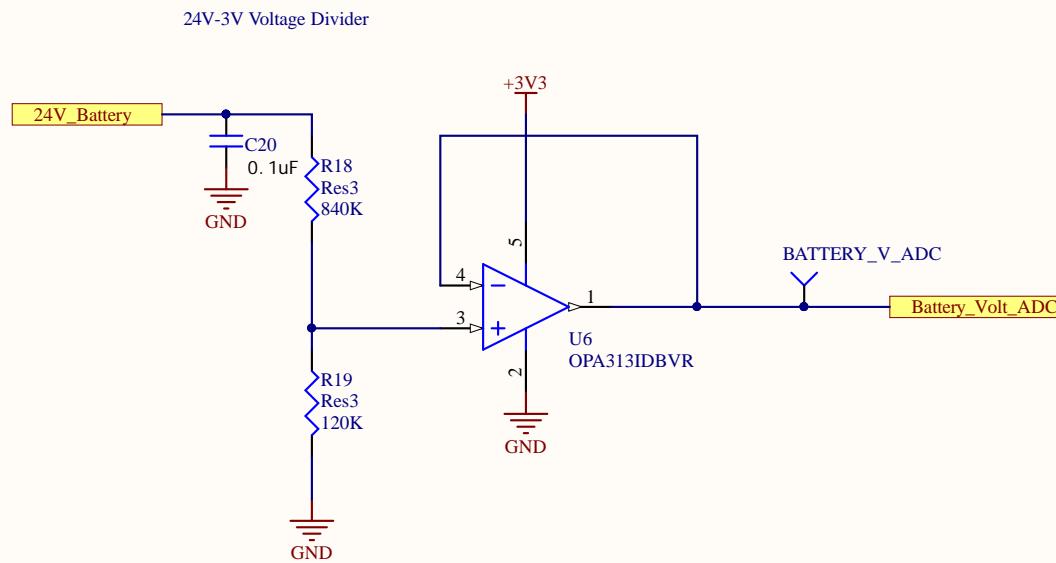
B

C

C

D

D



Title		
Size	Number	Revision
A		
Date:	12/20/2019	Sheet of
File:	D:\RNS\..\battery_volt_sense.SchDoc	Drawn By:

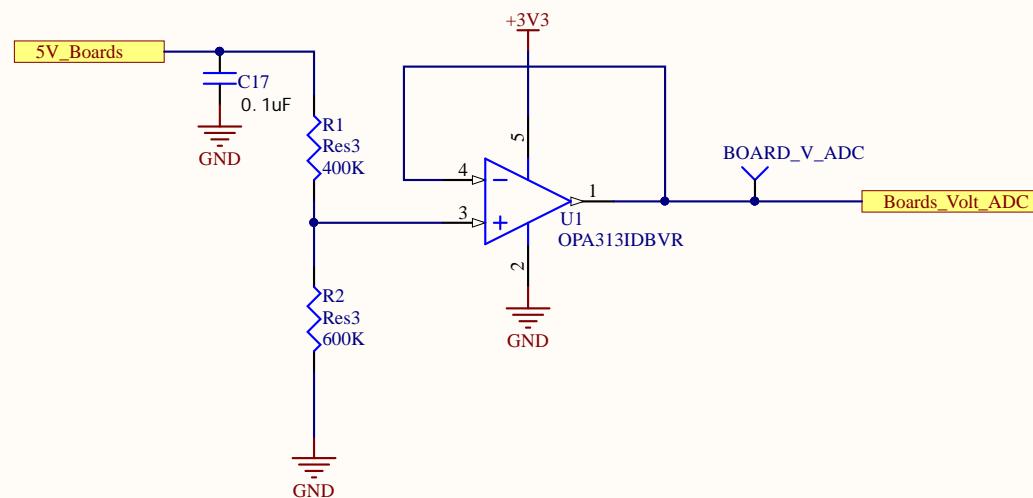
A

A

5V-3V Voltage Divider

B

B



C

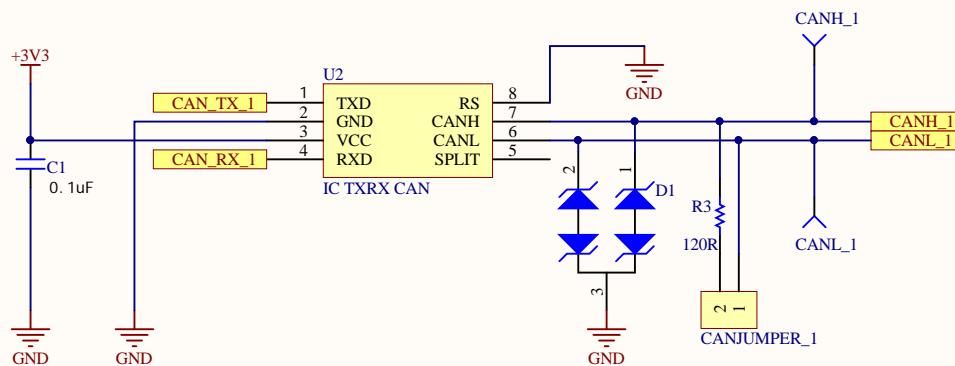
C

D

D

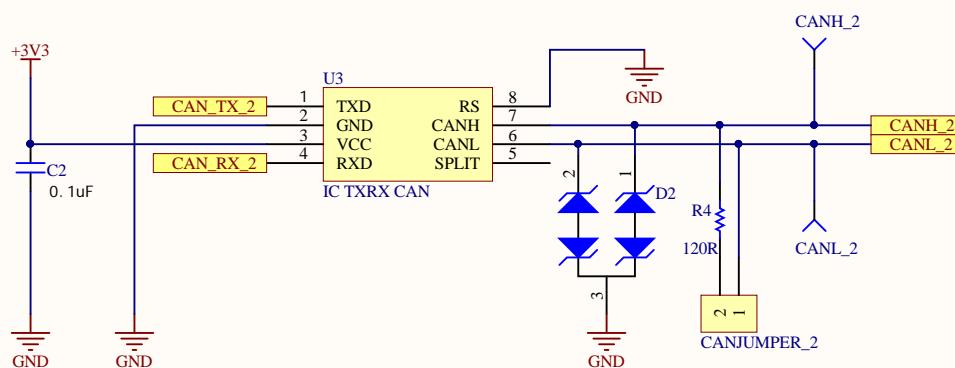
Title		
Size	Number	Revision
A		
Date:	12/20/2019	Sheet of
File:	D:\RNS\..\board_volt_sense.SchDoc	Drawn By:

A



A

B



B

C

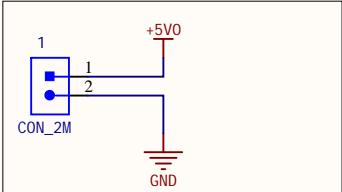
C

D

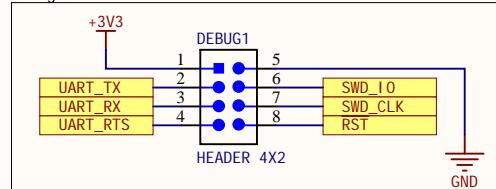
D

Title		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6
Size: Letter	Drawn By: *	
Date: 12/20/2019	Sheet of	
File: D:\RNS\grade 11 & 12\others\Waterloo\IB\Robotics Team\Electrical\2020\MarsRover2020-PCB\Projects\		

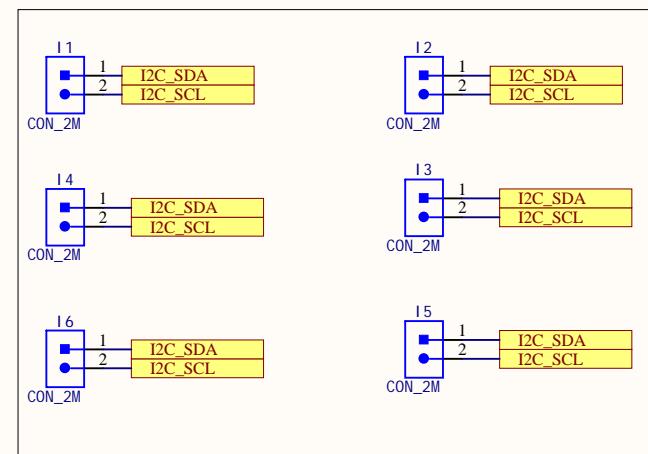
Power Connectors



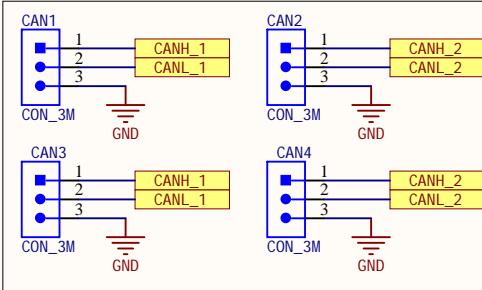
Debug Connector



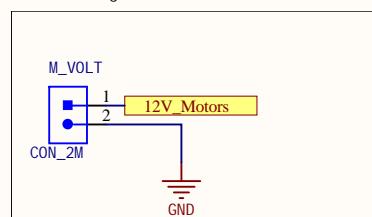
I2C Current Sensors



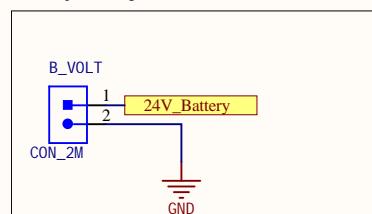
CAN Connections



Motor Voltage Sensors



Battery Voltage Sensors



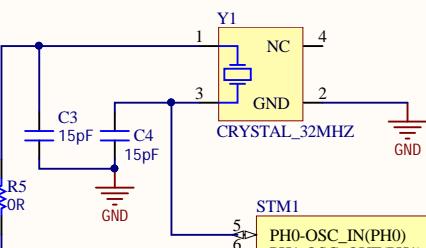
A

B

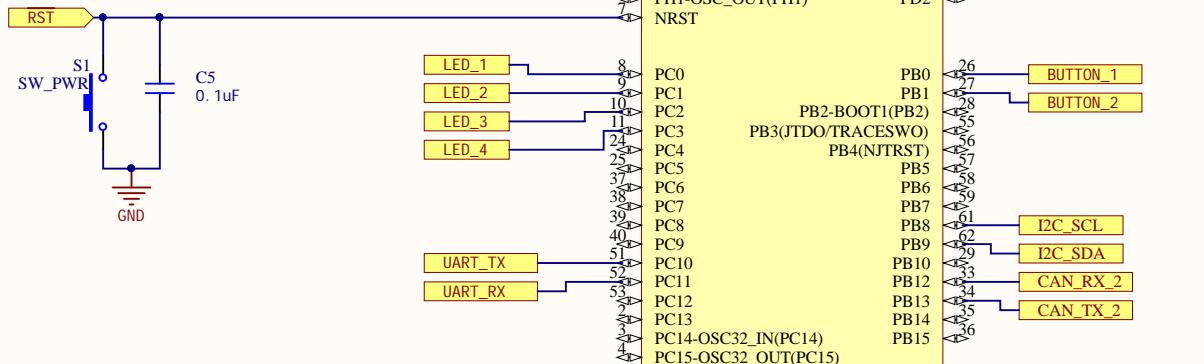
C

D

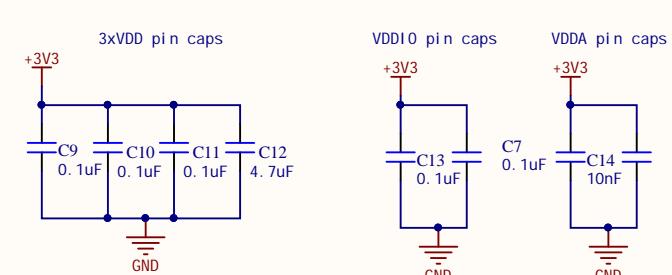
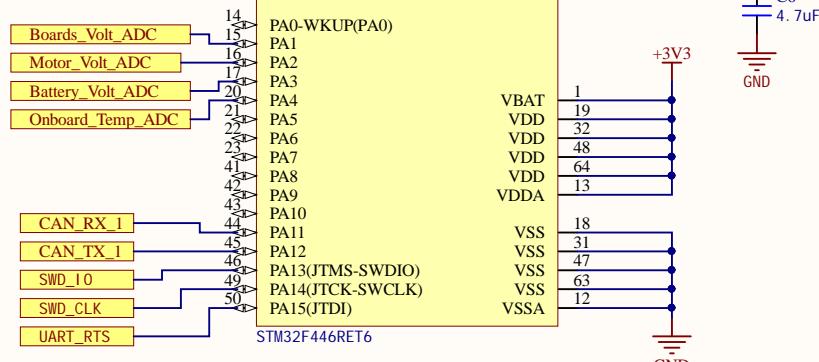
A



B



C



D

A

A

B

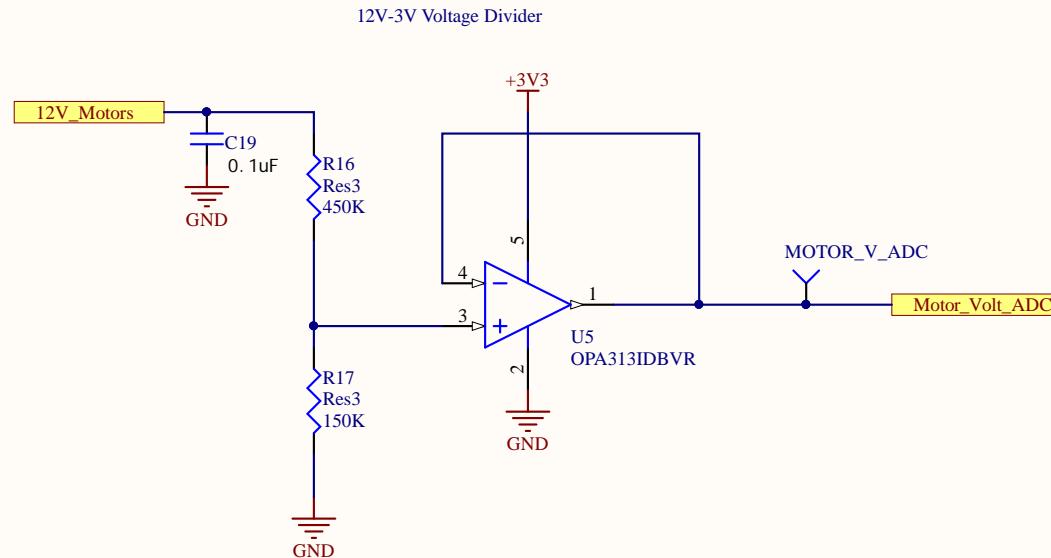
B

C

C

D

D



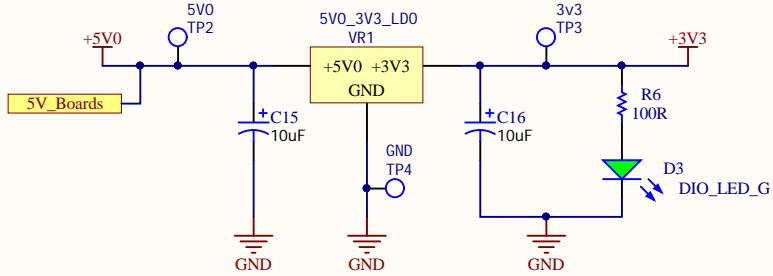
Title		
Size	Number	Revision
A		
Date:	12/20/2019	Sheet of
File:	D:\RNS\..\motor_volt_sense.SchDoc	Drawn By:

A

B

C

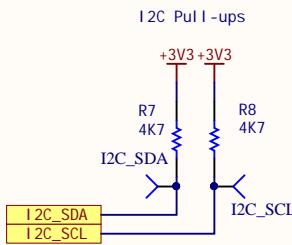
D



Title		<i>UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6</i>
Size: Letter		Drawn By: *
Date: 12/20/2019		Sheet of
File: D:\RNS\grade 11 & 12\others\Waterloo\IB\Robotics Team\Electrical\2020\MarsRover2020-PCB\Projects\		

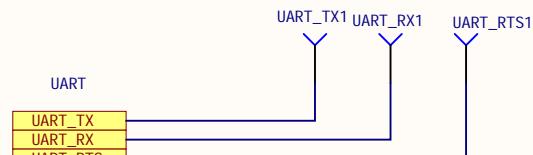
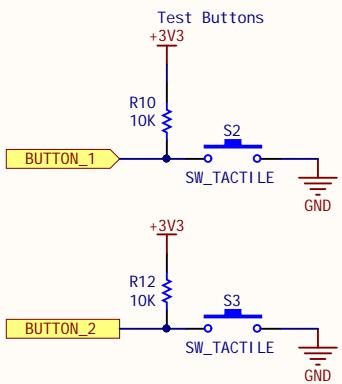
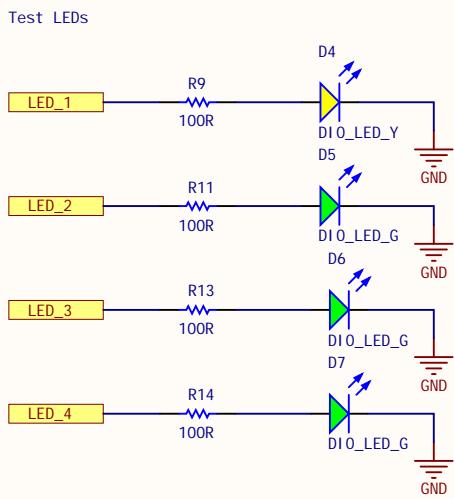
A

A



B

B



C

C

D

D

Title		UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6
Size: Letter	Drawn By: *	
Date: 12/20/2019	Sheet of	
File: D:\RNS\grade_11 & 12\others\Waterloo\IB\Robotics Team\Electrical\2020\MarsRover2020-PCB\Projects\		

A

A

B

B

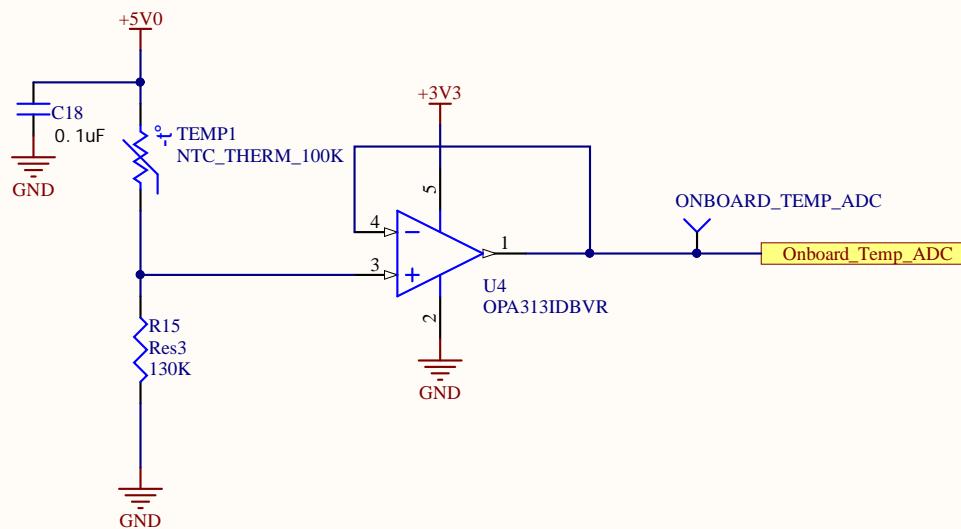
C

C

D

D

Thermistor (4700K) creates $R = 280872\text{K}$ @ -40C and $R = 80.464\text{K}$ @ 125C



Title		
Size	Number	Revision
A		
Date:	12/20/2019	Sheet of
File:	D:\RNS\..\temp_sense.SchDoc	Drawn By:

