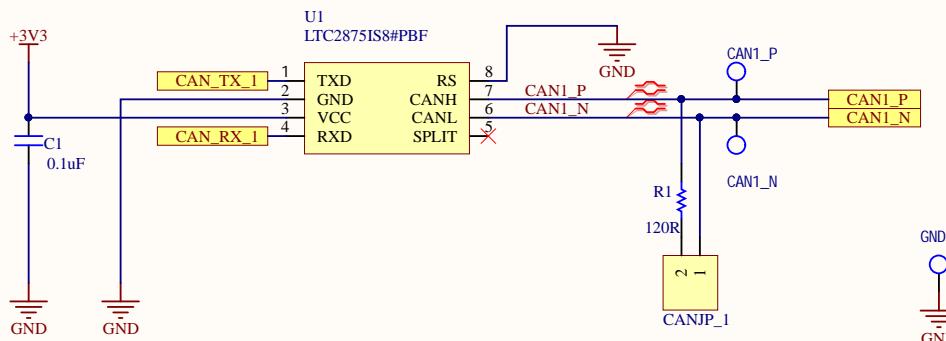


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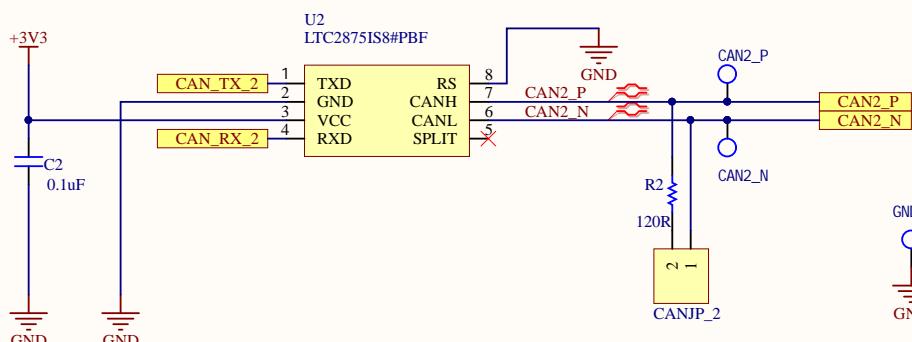
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CAN Transceivers



B

B



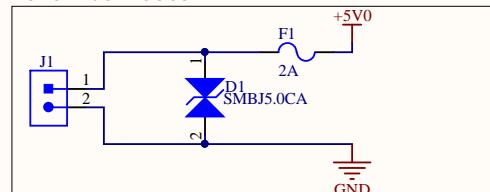
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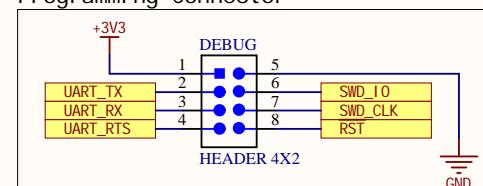
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Size: Letter	Drawn By: *	200 University Avenue Waterloo Ontario Canada N2L 3G6
Date: 2020-01-28	Sheet of	File: C:\Users\lance\Desktop\MarsRover2020-PCB\Projects\Safety\Rev1\sch\CAN.SchDoc

Connectors

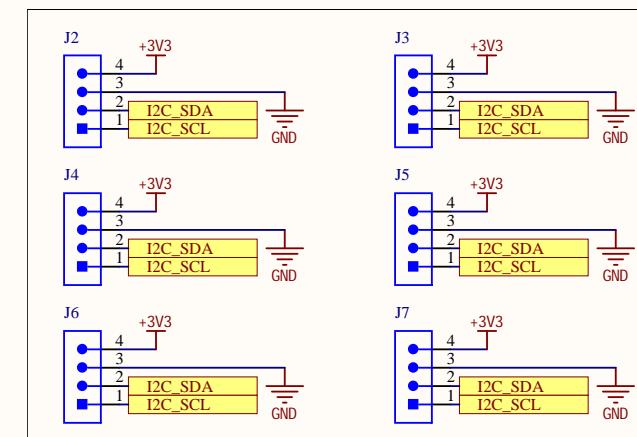
Power Connector



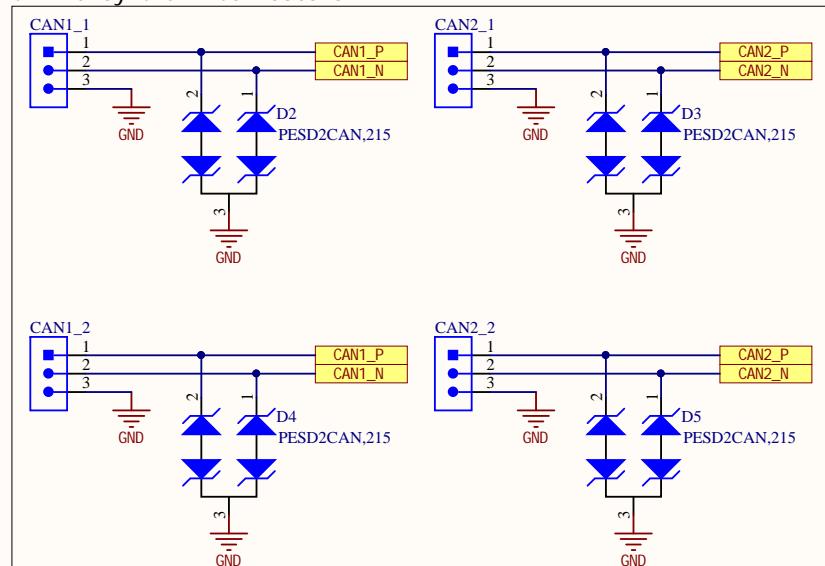
Programming Connector



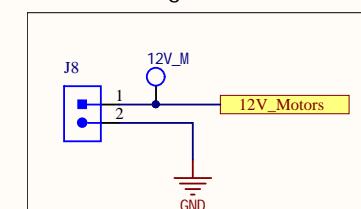
I2C Current Sensors



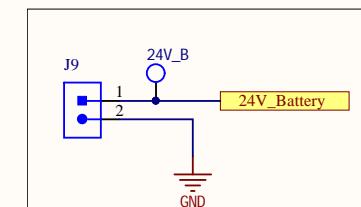
CAN Daisy Chain Connectors



Motor Voltage



Battery Voltage



Title: Connectors

Size: Letter Drawn By: *

Date: 2020-01-28

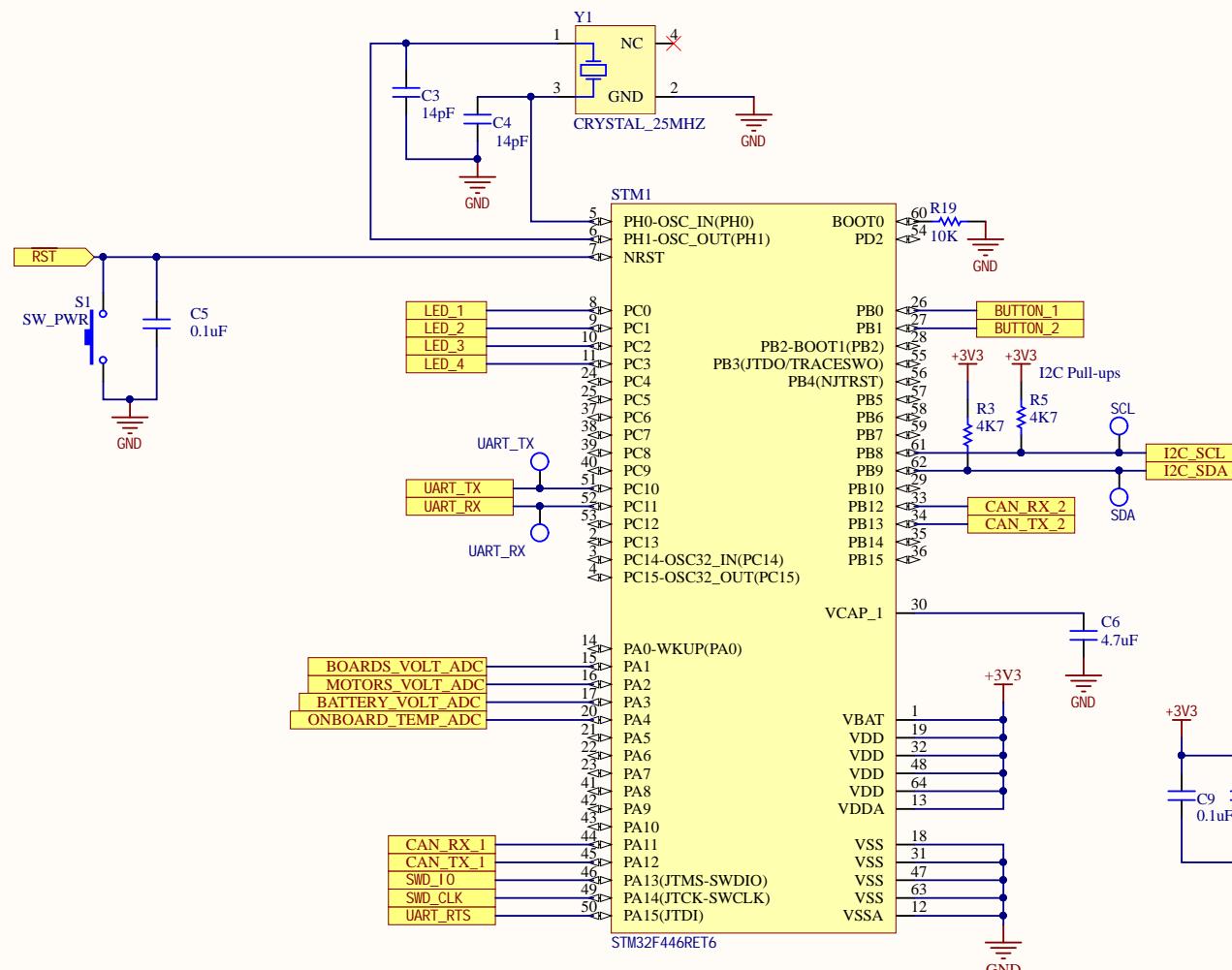
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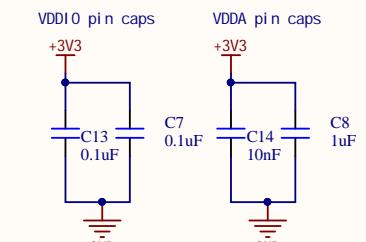
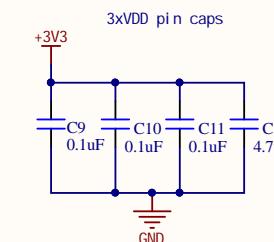
UW Robotics
200 University Avenue
Waterloo
Ontario
Canada N2L 3G6

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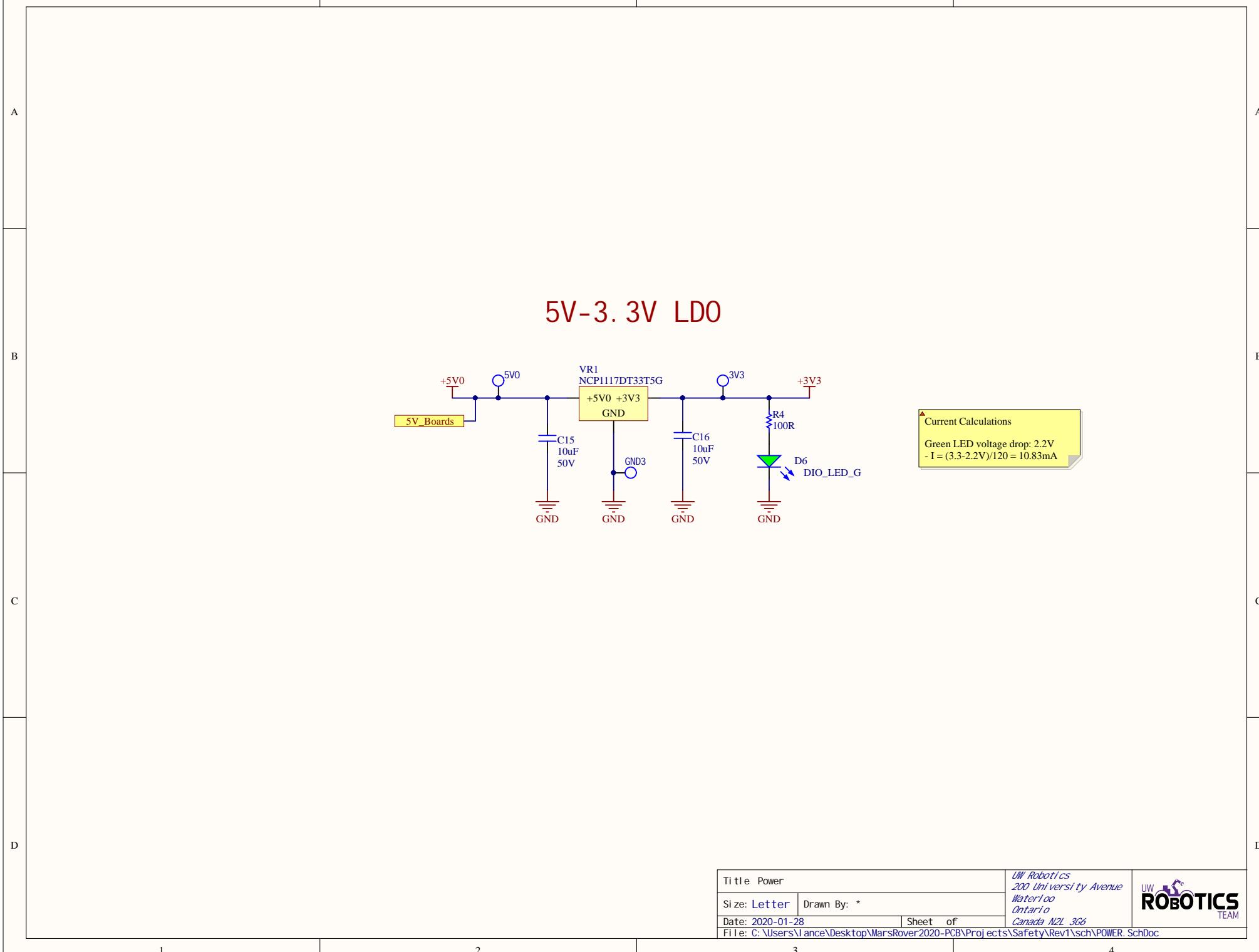
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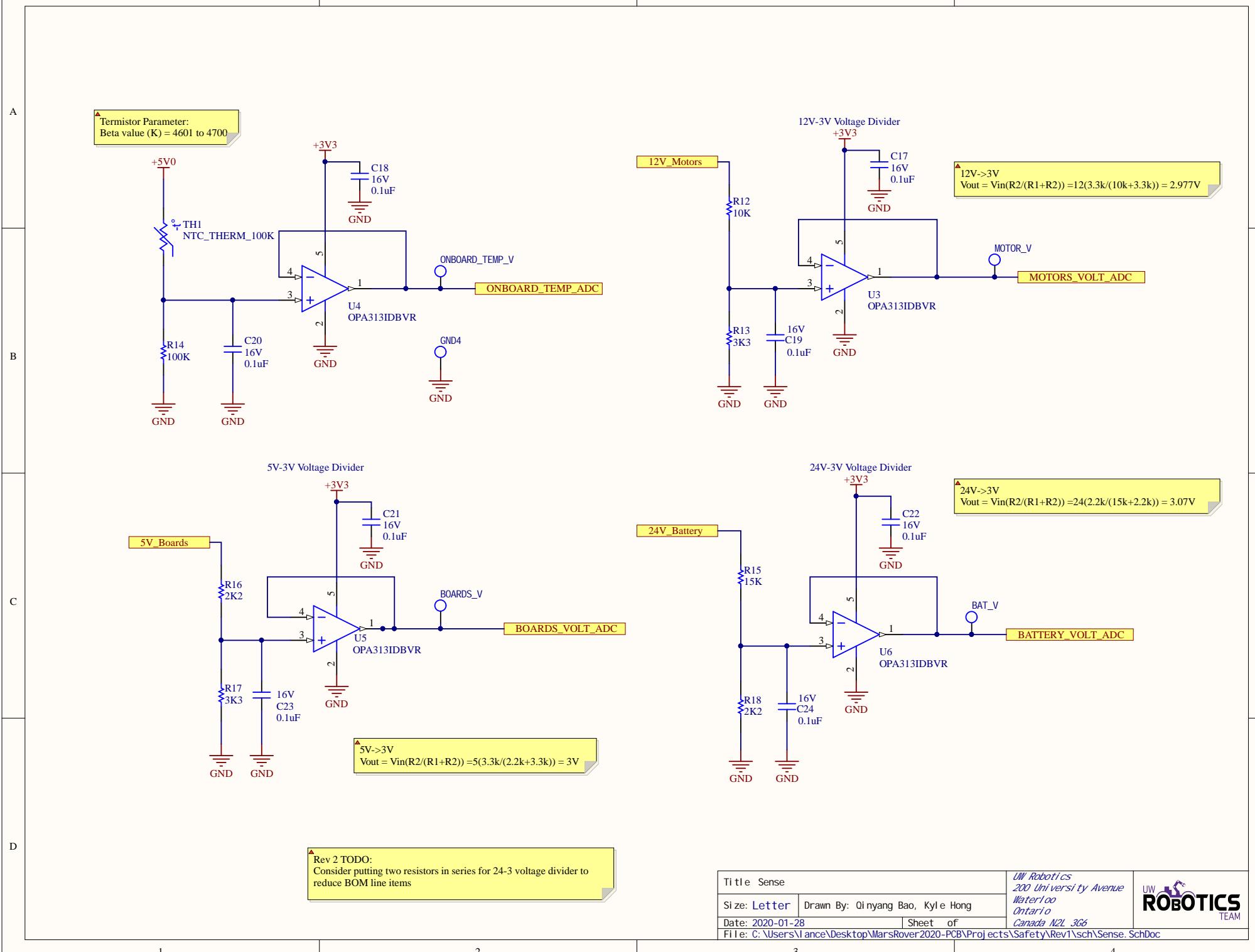


Bypass Capacitors



Title: MCU	UW Robotics 200 University Avenue Waterloo Ontario Canada N2L 3G6	
Size: Letter	Drawn By: *	
Date: 2020-01-28	Sheet of	
File: C:\Users\lance\Desktop\MarsRover2020-PCB\Projects\Safety\Rev1\sch\MCU.SchDoc		

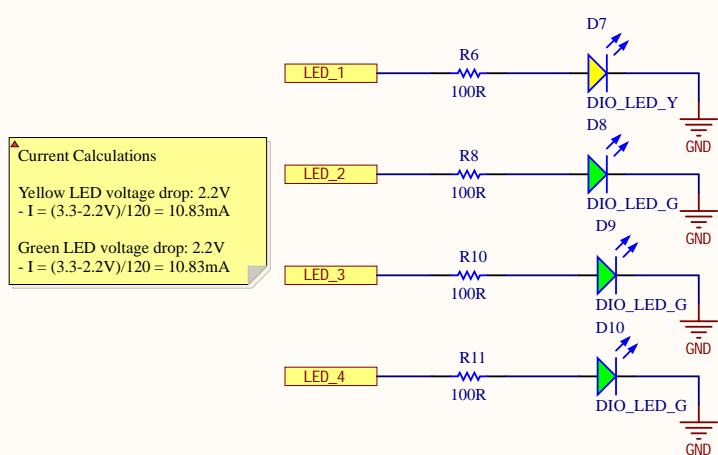




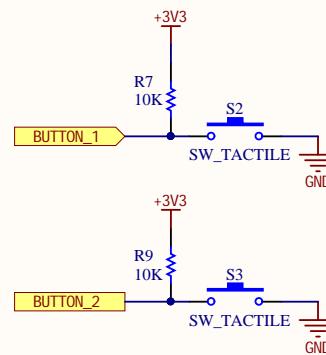
A

A

Test LEDs



Test Buttons



B

B

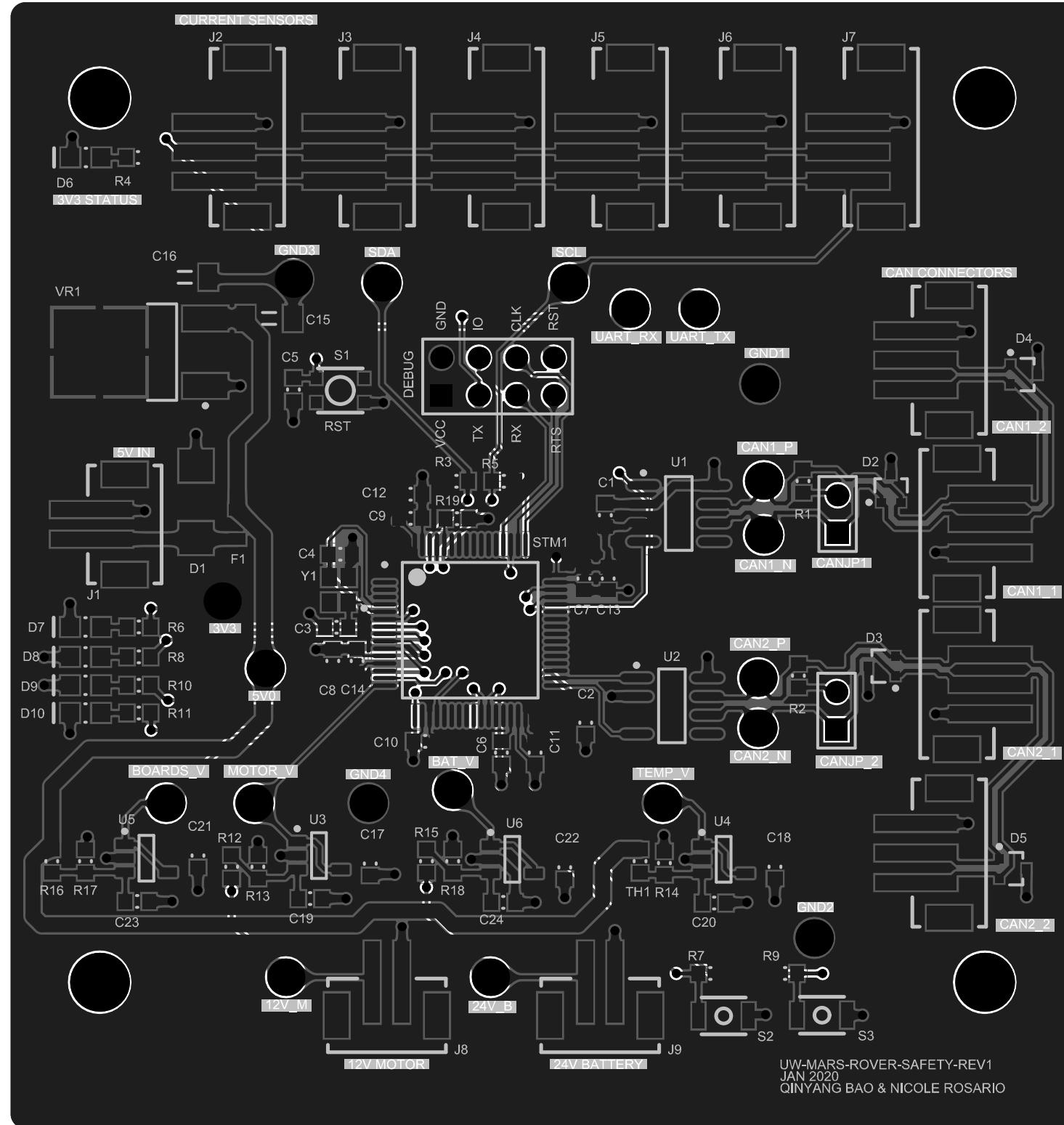
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C

D

D

Title: Support		UW Robotics
Size: Letter	Drawn By: *	200 University Avenue Waterloo Ontario Canada N2L 3G6
Date: 2020-01-28	Sheet of	
File: C:\Users\lance\Desktop\MarsRover2020-PCB\Projects\Safety\Rev1\sch\Support.SchDoc		UW ROBOTICS TEAM



Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number
	TESTPOD	Loop testpoint through-hole pad	3V3, 5V0, 12V	20	Keystone Electronics	5002
	CAP_0.1uF	CAP CER 0.1uF 16V X7R 0603	C1, C2, C5, C6	16	Yageo	CC0603KRX7R7B
	CL10C14	Cap Ceramic 14pF 50V COG 5% SMD 0805	C3, C4	2	Samsung	CL10C140JB8NN
	CAP_4.7uF	CAP CER 4.7uF 6.3V X5R 0603	C6, C12	2	Yageo	CC0603KRX5R5B
	CAP_1uF	CAP CER 1uF 16V Y5V 0603	C8	1	Yageo	CC0603ZRY5V7B
	CAP_10nF	CAP CER 10000PF 16V X7R 0603	C14	1	Yageo	CC0603KRX7R7B
	10uF	CAP CER 10uF 50V X5R 1206	C15, C16	2	Murata	GRT31CR61H10
	CON_3M_SM4		CAN1_1, CAN1_2	4	JST	B3B-PH-SM4-TB
	JUMPER	HEADER 2X1	CANJP_1, CANJP_2	2	TE Connectivity	87220-2
	TVS_DIO	TVS DIODE 5V 9.2V DO214AA	D1	1	Littelfuse	SMBJ5.0CA
	TVS_DIO	TVS DIODE 24V 41V SOT323-3	D2, D3, D4, D5	4	Nexperia	PESD2CAN.215
	DIO_LED	LED GREEN DIFFUSED 0805 SMD	D6, D8, D9, D10	4	Osram Opto	LGR971-KN-1
	DIO_LED	LED YELLOW DIFFUSED 0805 SMD	D7	1	Osram Opto	LYR976-PS-36
	HEADER	CONN HEADER VERT 8POS 2.54MM	DEBUG	1	Harwin	M20-9980445
	FUSE_2A	FUSE SMD 2A 32V	F1	1	Littelfuse	0467002.NRHF
	CON_2M_SM4		J1, J8, J9	3	JST	B2B-PH-SM4-TB