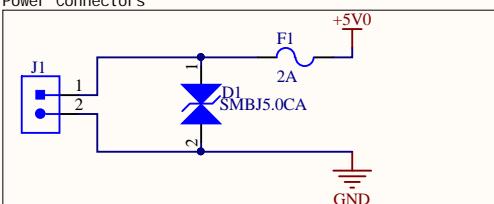
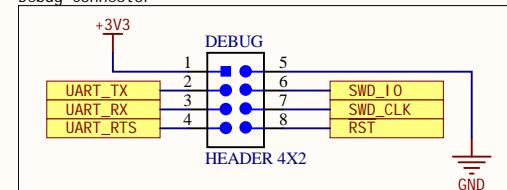


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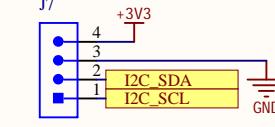
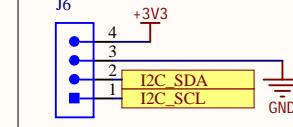
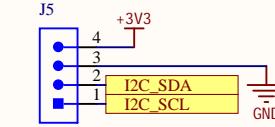
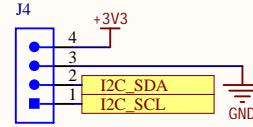
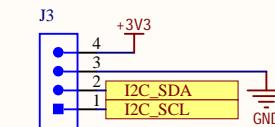
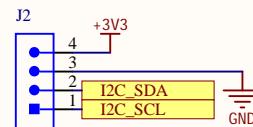
Power Connectors



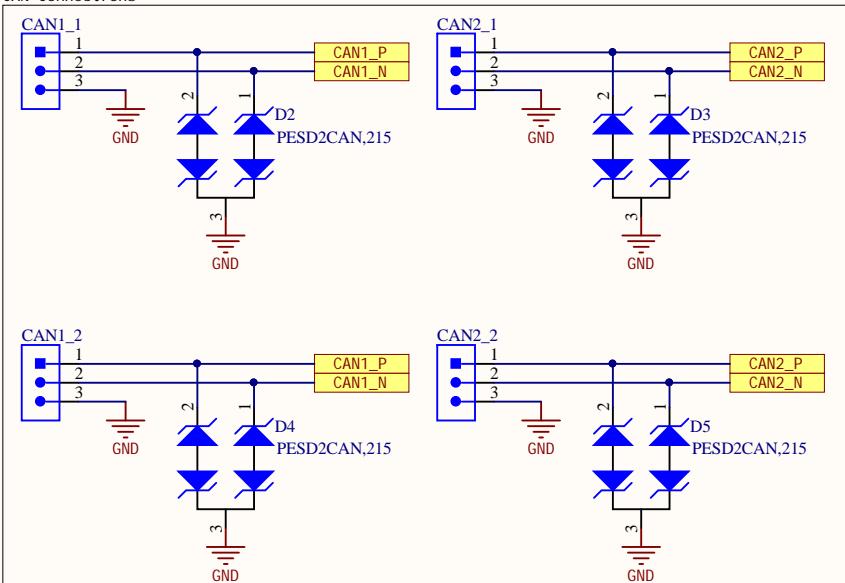
Debug Connector



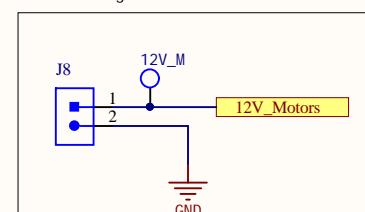
I2C Current Sensors



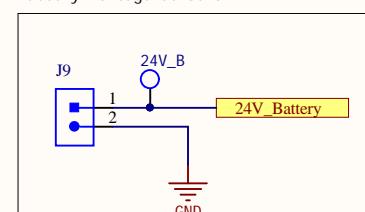
CAN Connections



Motor Voltage Sensors



Battery Voltage Sensors



Title Connectors

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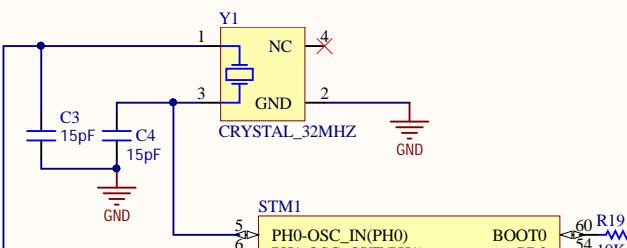
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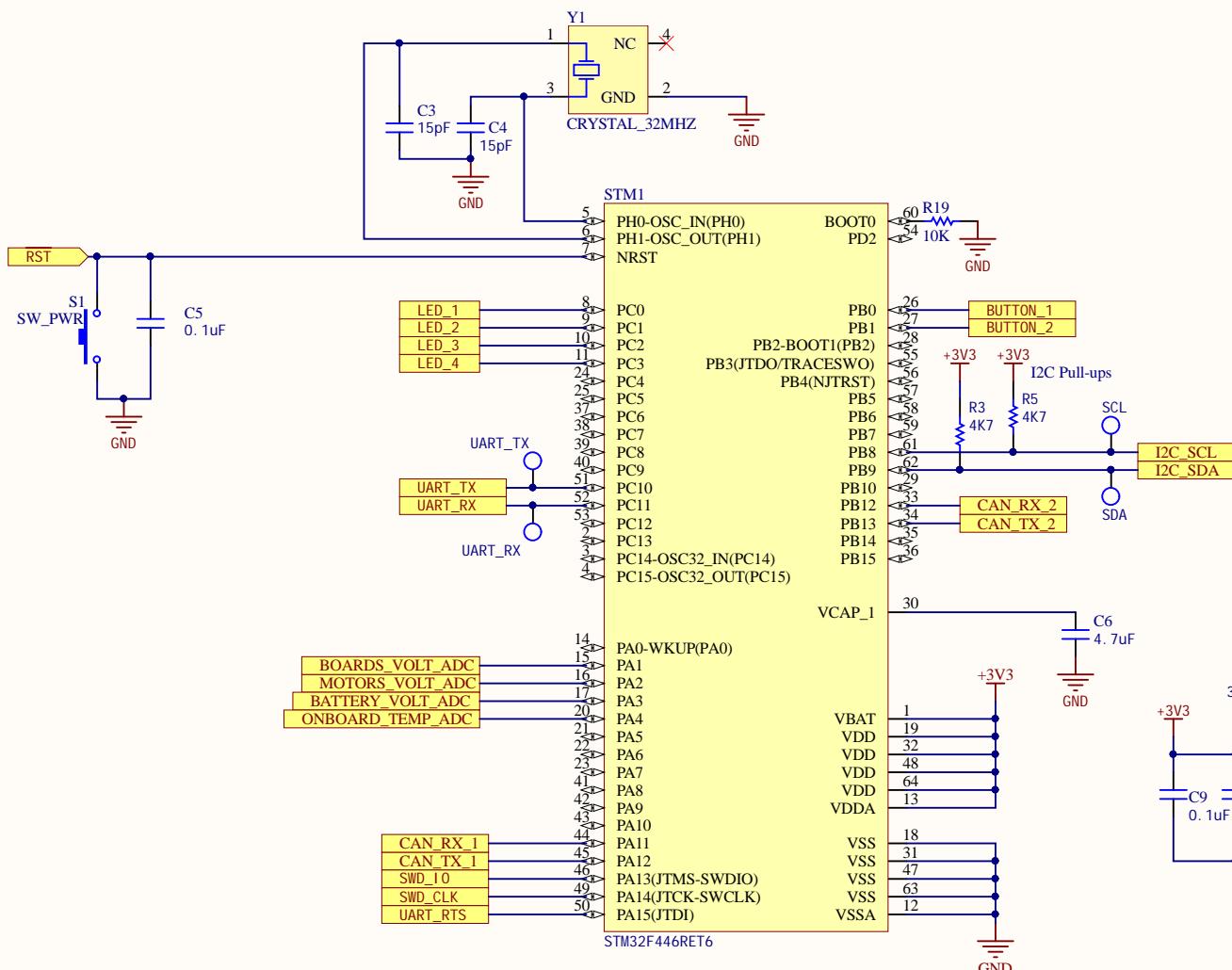
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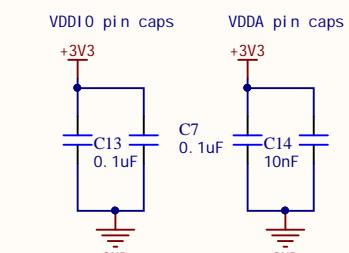
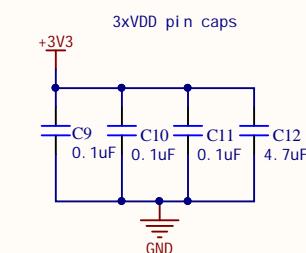
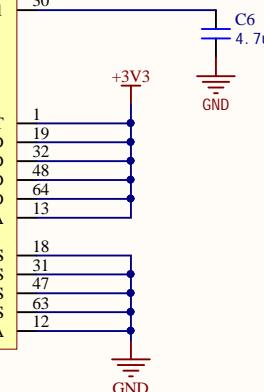


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VCAP_1



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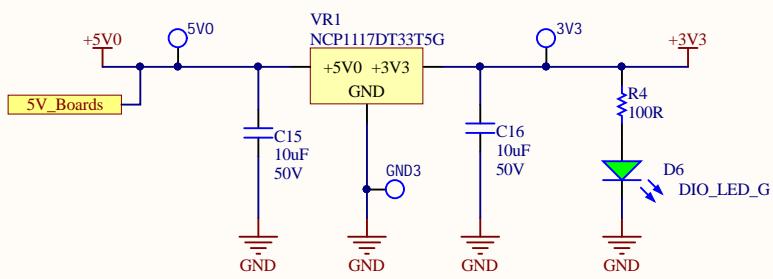
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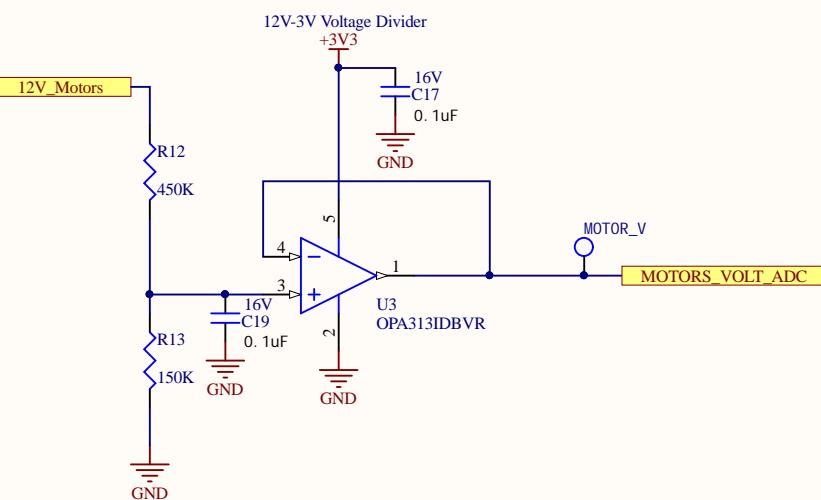
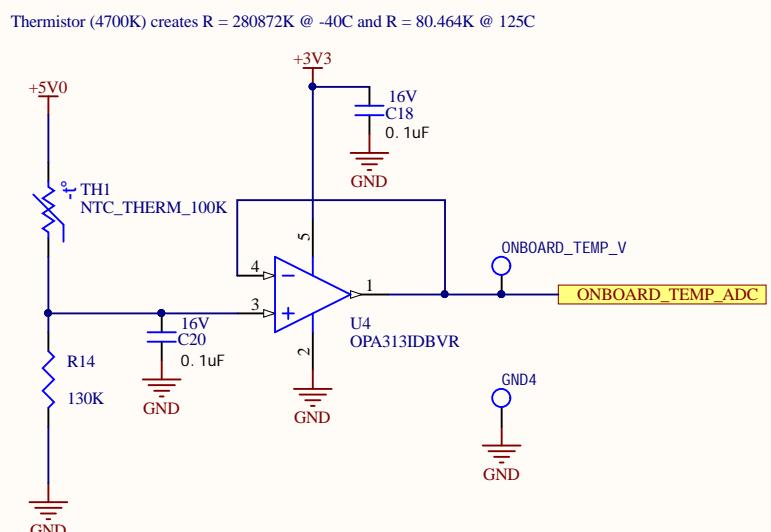
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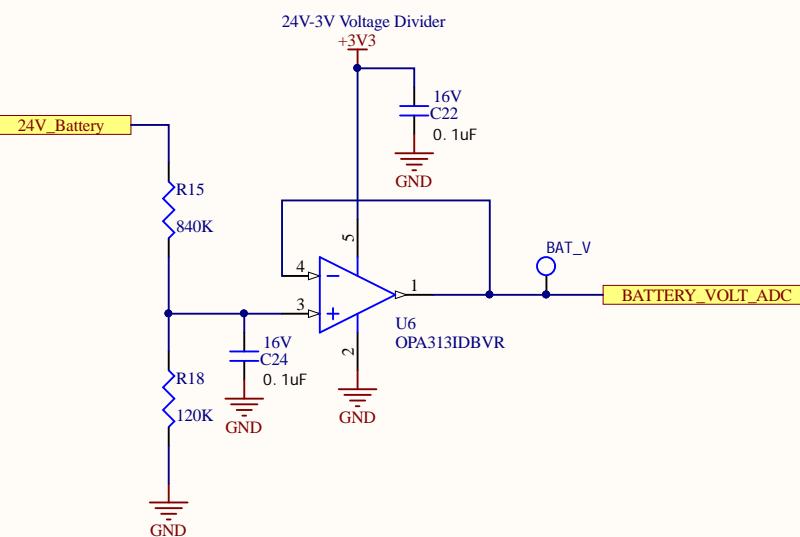
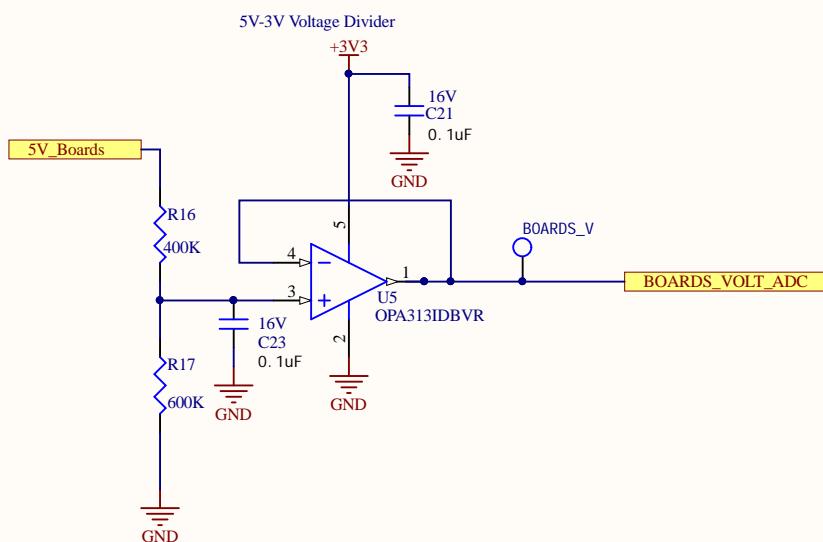


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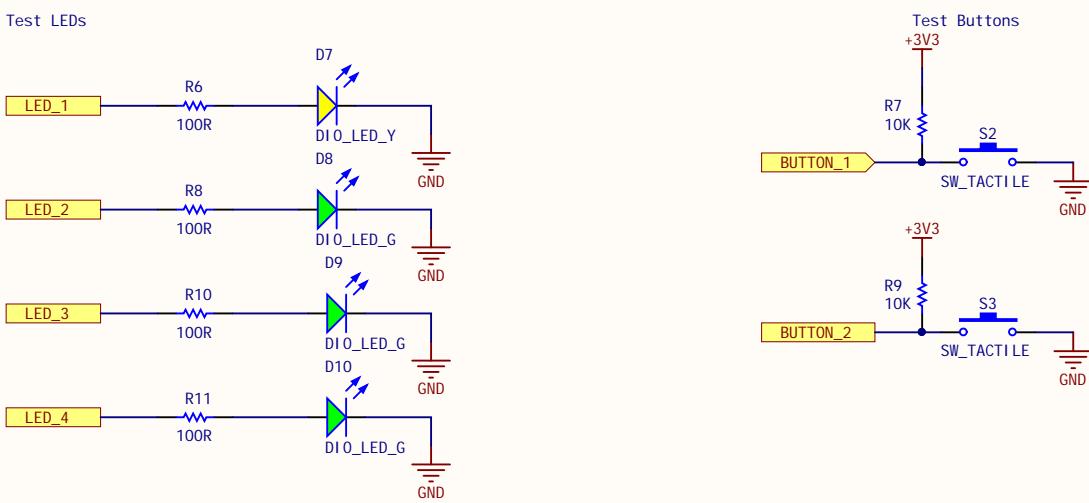
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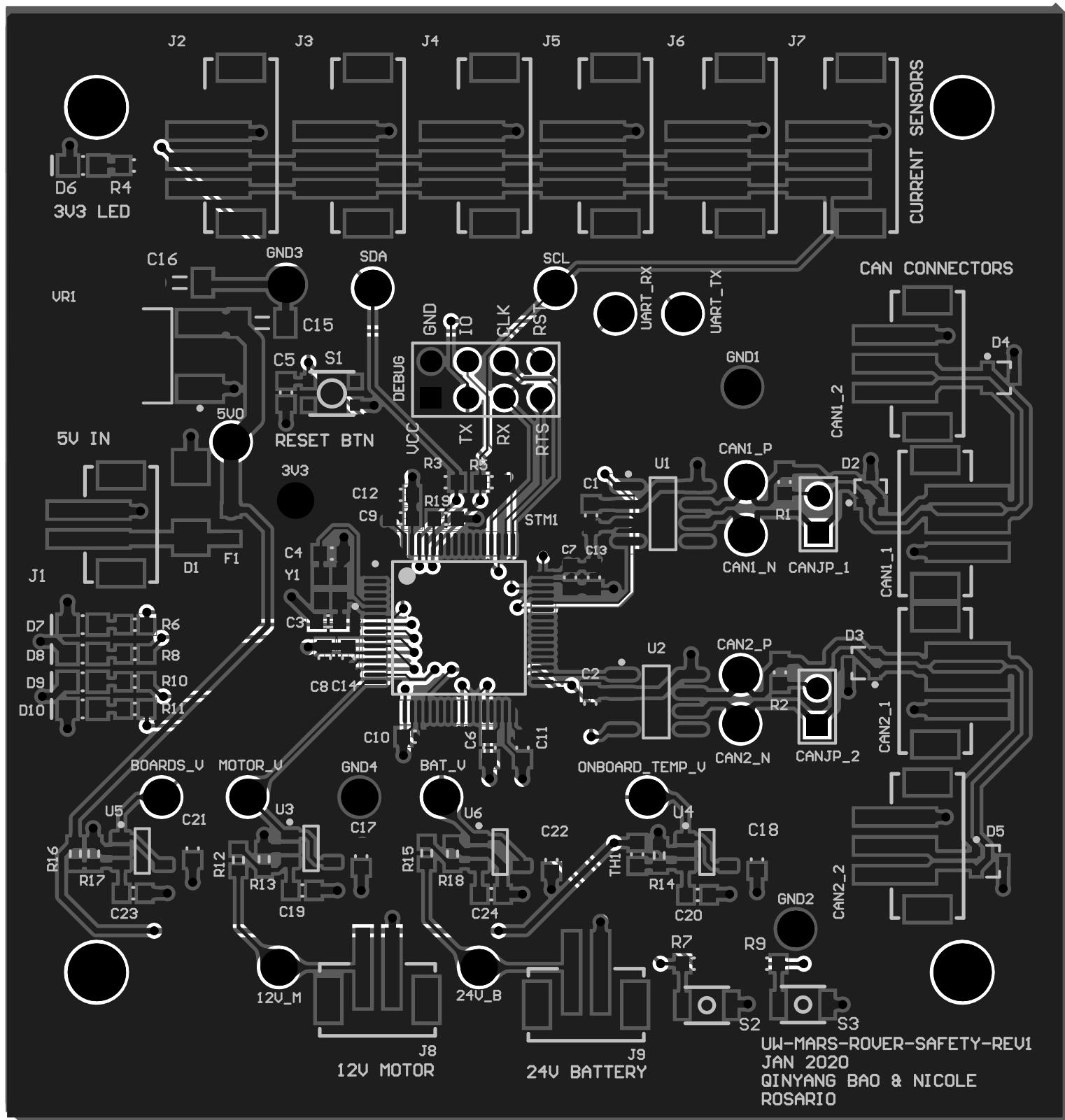
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Comment	Description	Designator	Footprint	LibRef	Qu
3v3	Loop testpoint through 3V3	3V3	TESTPOINT_LOOP	TESTPOINT_LOOP	
5V0	Loop testpoint through 5V0	5V0	TESTPOINT_LOOP	TESTPOINT_LOOP	
TESTPOINT_LOOP	Loop testpoint through 12V_M, 24V_B, BAT_	TESTPOINT_LOOP	TESTPOINT_LOOP	TESTPOINT_LOOP	
	CAP CER 0.1uF 16V XC1, C2, C17, C18, C1	CAPC0603(1608)55_	CAPC0603(1608)55_	CAP_0.1uF_16V_0603	
CAP_15pF_0603	CAP CER 15PF 250V XC3, C4	CAPC0603(1608)55_	CAPC0603(1608)55_	CAP_15pF_0603	
CAP_0.1uF_16V_060	CAP CER 0.1uF 16V XC5, C7, C9, C10, C11	CAPC0603(1608)55_	CAPC0603(1608)55_	CAP_0.1uF_16V_060	
CAP_4.7uF_0603	CAP CER 4.7uF 6.3V C6, C12	CAPC0603(1608)55_	CAPC0603(1608)55_	CAP_4.7uF_0603	
CAP_1uF_16V_0603	CAP CER 1uF 16V Y5C8	CAPC0603(1608)55_	CAPC0603(1608)55_	CAP_1uF_16V_0603	
CAP_10nF_0603	CAP CER 10000PF 16V C14	CAPC0603(1608)55_	CAPC0603(1608)55_	CAP_10nF_0603	
10uF	CAP CER 10uF 50V XC15, C16	CAPC1206(3216)	CAPC1206(3216)	CAP_10uF_50V_1206	
CON_3M_SM4		CAN1_1, CAN1_2, CA	JST-B3B-SM4-TB	CON_3M_SM4	
ESTPOINT_LOOP	Loop testpoint through CAN1_N, CAN1_P, CA	CAN1_N, CAN1_P, CA	TESTPOINT_LOOP	TESTPOINT_LOOP	
JUMPER_2	HEADER 2X1	CANJP_1, CANJP_2	HDR1X2	JUMPER_2	
TVS_DIODE_BIDI	TVS DIODE 5V 9.2V D1	TVS_DIODE_BIDI	TVS_DIODE_BIDI	TVS_DIODE_BIDI	
TVS_DIODE_CAN	TVS DIODE 24V 41V D2, D3, D4, D5	NXP-SOT323-3	NXP-SOT323-3	TVS_DIODE_CAN	
DIO_LED_G	LED GREEN DIFFUSE D6, D8, D9, D10	LED_0805_LINE	LED_0805_LINE	DIO_LED_G	
DIO_LED_Y	LED YELLOW DIFFUSE D7	LED_0805_LINE	LED_0805_LINE	DIO_LED_Y	
HEADER_4X2	Header, 4-Pin Dual row	DEBUG	HEADER_2X4	HEADER_4X2	
FUSE_2A_0603	FUSE SMD 2A 32V	F1	FUSE_0603	FUSE_2A_0603	
GND	Loop testpoint through GND1, GND2, GND3	GND1, GND2, GND3	TESTPOINT_LOOP	TESTPOINT_LOOP	
CON_2M_SM4		J1, J8, J9	JST-B2B-SM4-TB	CON_2M_SM4	
CON_4M_SM4		J2, J3, J4, J5, J6, J7	JST-B4B-SM4-TB	CON_4M_SM4	
	RES SMD 120 OHM 5%	R1, R2	RESC0603(1608)_N	RES_120R_0603	
RES_4K7_0603	RES SMD 4.7K OHM 5%	R3, R5	RESC0603(1608)_N	RES_4K7_0603	
RES_100R_0603	RES SMD 100 OHM 1%	R4, R6, R8, R10, R11	RESC0603(1608)_N	RES_100R_0603	
RES_10K_0603	RES SMD 10K OHM 5%	R7, R9, R19	RESC0603(1608)_N	RES_10K_0603	
Res3	Resistor	R12, R13, R14, R15,	J1-0603	Res3	
SW_PWR	Power Switch (Red)	S1	PTS830GM140	SW_PWR	
SW_TACTILE	Tactile Switch (Grey)	S2, S3	B3U-1100P	SW_TACTILE	
STM32F446RET6	ARM Cortex-M4 32-bit	STM1	STM-LQFP64_L	MCU_STM32F446RET	
NTC_THERM_100K	TCMPS001 NTC 100KOHM TH1	TCMPS001 TH1	RESC0603(1608)_N	NTC_THERM_100K	
LG_TYDY_CAN	LG_TYDY_CAN_4MBPS U1, U2	LG_TYDY_CAN_4MBPS U1, U2	LG_TYDY_CAN_4MBPS U1, U2	LG_TYDY_CAN_4MBPS	