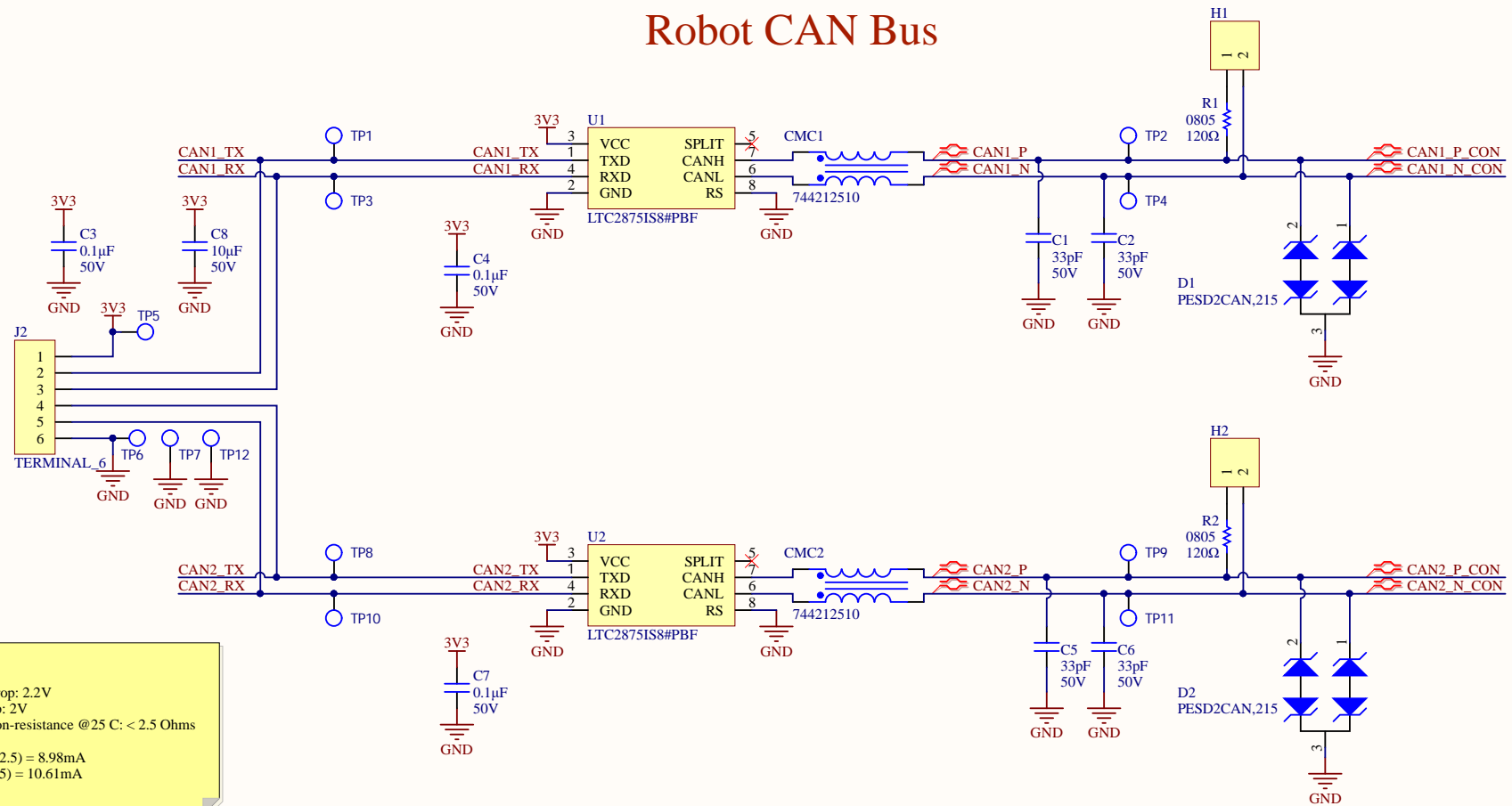


NVIDIA Jetson TX2

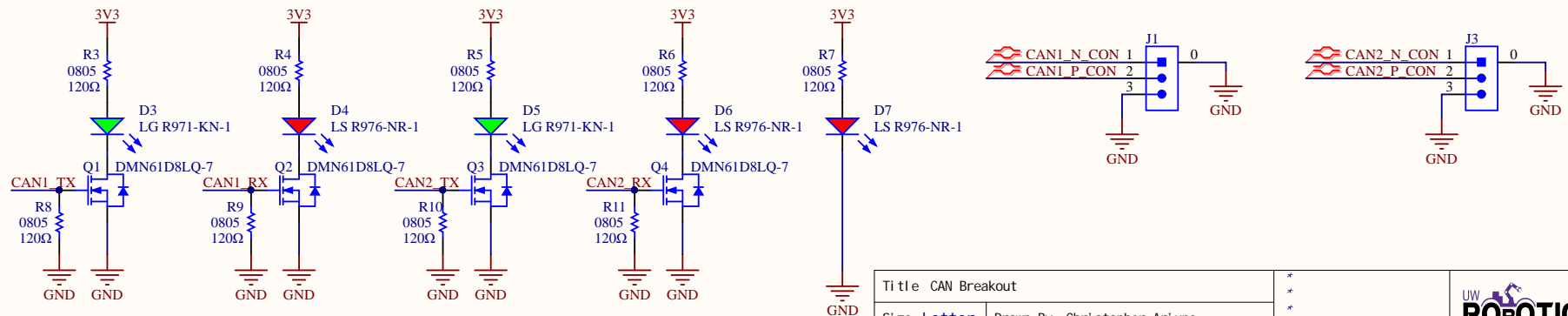
Robot CAN Bus

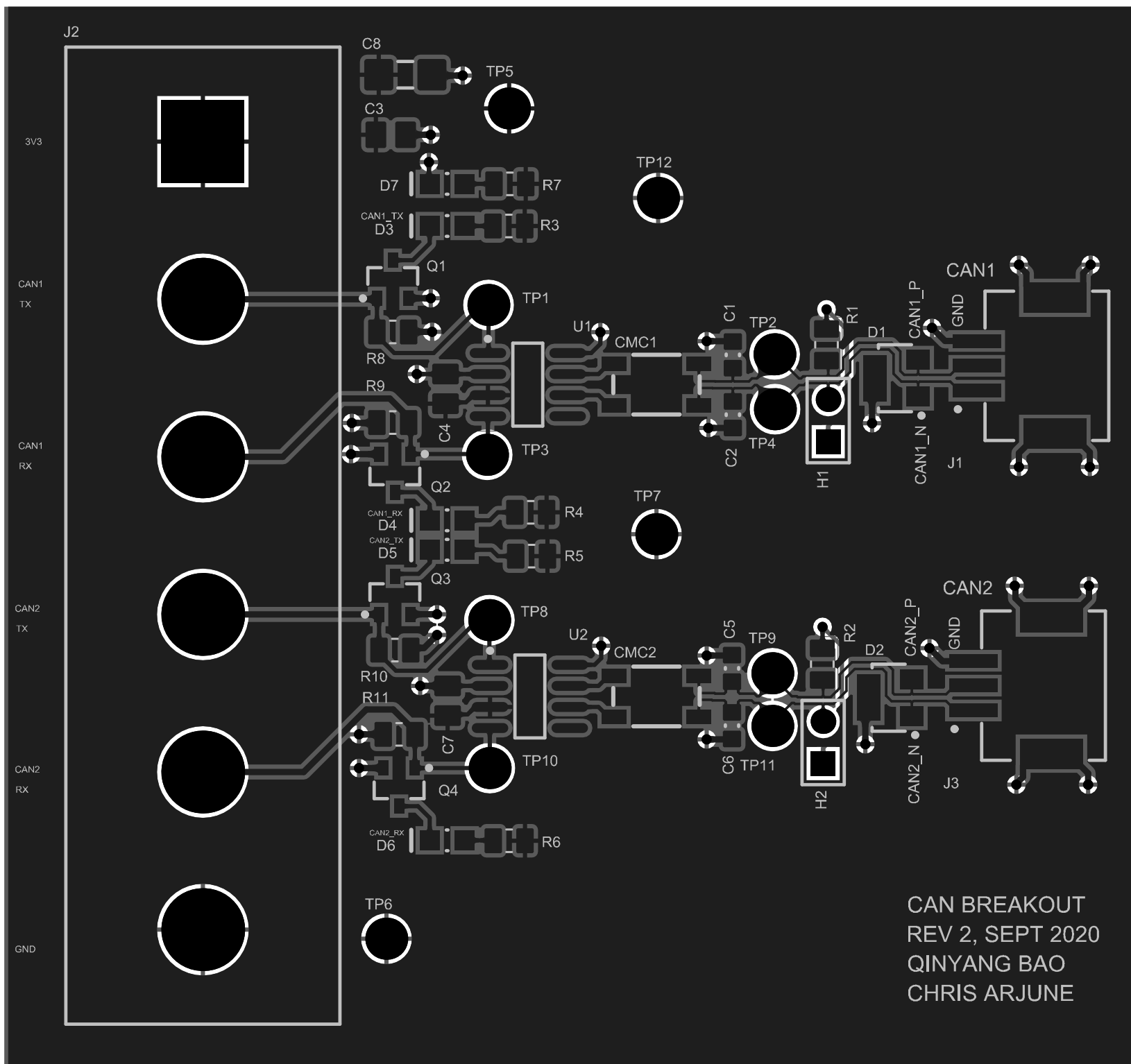


Current Calculations

Green LED voltage drop: 2.2V
 Red LED voltage drop: 2V
 N-channel MOSFET on-resistance @25 C: < 2.5 Ohms

- I = $(3.3-2.2V)/(120+2.5) = 8.98mA$
 - I = $(3.3-2V)/(120+2.5) = 10.61mA$





CAN BREAKOUT
REV 2, SEPT 2020
QINYANG BAO
CHRIS ARJUNE

Comment	Description	Designator	Footprint	LibRef	Quantity
CAP_33pF_50V_0603	CAP CER 33PF 50V X	C1, C2, C5, C6	CAPC0603(1608)55_	CAP_33pF_50V_0603	4
0.1μF	CAP CER 0.1UF 50V X	C3, C4, C7	CAPC2012X140N	CAP_0.1uF_50V_0805	3
10uF	CAP CER 10UF 50V X	C8	CAPC1206(3216)	CAP_10uF_50V_1206	1
	CMC 51uH 300MA 2L	CMC1, CMC2	744212510	CMC_51uH	2
TVS_DIODE_CAN	TVS DIODE 24V 41V S	D1, D2	TVS_DIODE_CAN	TVS_DIODE_CAN	2
LGR971-KN-1	LED GREEN DIFFUSE	D3, D5	LED_0805_LINE	DIO_LED_G	2
LSR976-NR-1	LED RED DIFFUSED C	D4, D6, D7	LED_0805_LINE	DIO_LED_R	3
JUMPER_2	HEADER 2X1	H1, H2	HDR1X2	JUMPER_2	2
	CONN RCPT 3POS 0.0	J1, J3	MOLEX-5025850370	CON_3M_SM_RA	2
TERMINAL_6	Header, 6-Pin	J2	OSTYK51106030	TERMINAL_6	1
NMOS_60V_470mA	MOSFET N-CH 60V SC	Q1, Q2, Q3, Q4	SOT23-3	NMOS_60V_470mA	4
120	RES SMD 120 OHM 1%	R1, R2, R3, R4, R5, R	RESC2012X60N	RES_120Ω_0805	11
TESTPOINT_LOOP	PC TEST POINT MINIA	TP1, TP2, TP3, TP4, T	TESTPOINT_LOOP	TESTPOINT_LOOP	12
IC TXRX CAN	IC TXRX CAN 4MBPS	U1, U2	LT-S8_N	LTC2875	2