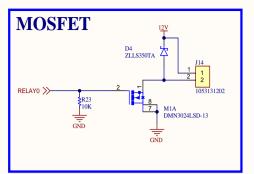
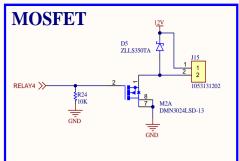
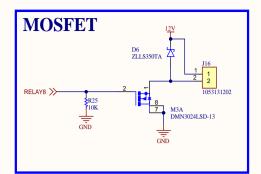
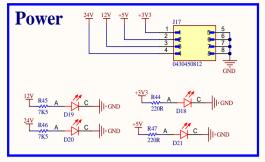


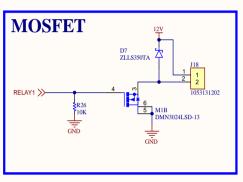
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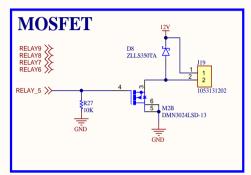


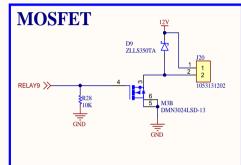


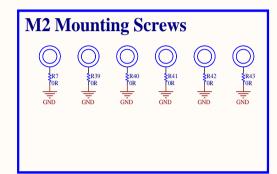


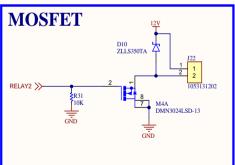


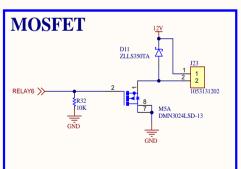


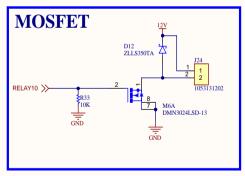


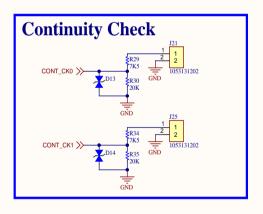


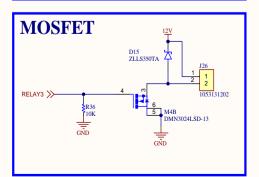


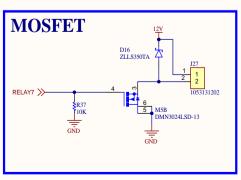


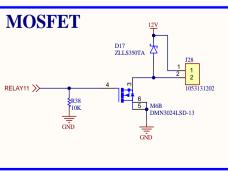




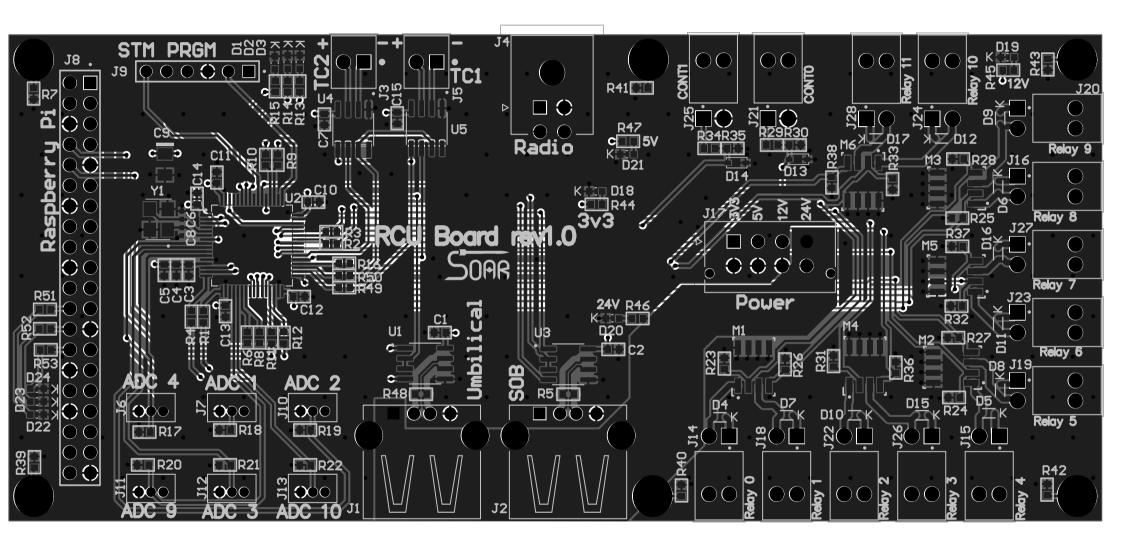








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File:	C:\Users\\RCU Relays.SchDoc	Drawn By: James Chen						
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Designator	Description	Manufacturer	Manufacturer Part #	Quantity
[NoValue], *1, *2, *3,			rdit#	6
*4, *5 C1, C2, C3, C7, C10, C11, C12, C13, C14, C15	CAP CER 0.1UF 50V X7R 0603	Samsung Electro- Mechanics	CL10B104KB8NN WC	10
C4, C5	CAP CER 1UF 25V X7R 0603	Yageo	CC0603KRX7R8BB 105	2
C6, C8	15 pF ±1% 50V Ceramic Capacitor COG, NPO 0402 (1005 Metric)	YAGEO	CC0402FRNPO9B N150	2
С9	4.7 µF Molded Tantalum Capacitors 20 V 1206 (3216 Metric) 40hm	AVX Corporation	TAJA475K020RNJ	1
D1, D2, D3, D18, D19, D20, D21, D22, D23, D24	Red 620nm LED Indication - Discrete 2.2V 0603 _1608 Metric	Rohm Semiconductor	SML-D12U1WT86	10
D4, D5, D6, D7, D8, D9, D10, D11, D12, D15, D16, D17	DIODE SCHOTTKY 40V 380MA SOD523	Diodes Incorporated	ZLLS350TA	12
D13, D14	TVS DIODE 12VWM 28.3VC SOD323	Bourns Inc.	CDSOD323-T12C	2
J1, J2	CONN RCPT USB2.0 TYPEA 4POS R/A	Amphenol ICC (FCI)	87520-0010BLF	2
J3, J5	TERM BLK 2P SIDE ENT 2.54MM PCB	TE Connectivity AMP Connectors	282834-2	2
J4	CONN HEADER R/A 4POS 3MM	Molex	0430450400	1
J6, J7, J10, J11, J12, J13	CONN HEADER VERT 3POS 1.5MM	JST Sales America Inc.	B3B-ZR(LF)(SN)	
J8	CONN SOCKET 40POS 0.1 TIN PCB	Samtec Inc.	ESQ-120-23-T-D	1
J9	CONN HEADER VERT 6POS 2.54MM	Samtec	TSW-106-05-T-S	-
J14, J15, J16, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28	CONN HEADER R/A 2POS 2.5MM 8A	Molex	1053131202	14
J17	CONN HEADER VERT 8POS 3MM	Molex	0430450812	1
M1, M2, M3, M4, M5, M6	MOSFET 2N-CH 30V 6.8A 8SO	Diodes Incorporated	DMN3024LSD-13	
R1, R2, R3, R4, R9, R10, R11, R12, R49, R50	22 Ohms ±0.5% 0.063W, 1/16W Chip Resistor 0603 (1608 Metric) - Thin Film	Susumu	RR0816Q-220-D	10
R5, R48	RES SMD 100 OHM 0.5% 1/16W 0603	Susumu	RR08P100DCT-ND	2
R6, R7, R8, R16, R39, R40, R41, R42, R43	0 Ohms Jumper 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200 Thick Film	Stackpole Electronics Inc	RMCF0603ZT0R00	ç
R13, R14, R15, R44, R47, R51, R52, R53	220 Ohms ±0.5% 0.063W, 1/16W Chip Resistor 0603 (1608 Metric) - Thin Film	Susumu	RR0816P-221-D	8
R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R31, R32, R33, R36, R37, R38	RES 10K OHM 1% 1/8W 0603	Stackpole Electronics Inc	RNCP0603FTD10K 0	18
R29, R30, R34, R35, R45, R46	RES 7.5K OHM 1% 1/8W 0603, RES 20K OHM 1% 1/10W 0603	Stackpole Electronics Inc	RNCP0603FTD7K5 0, RNCP0603FTD20K 0	
U1, U3	IC TRANSCEIVER HALF 1/1 8SOIC	Texas Instruments	THVD1400DR	2
U2	IC MCU 32BIT 128KB FLASH 64LQFP	STMicroelectronic s	STM32L431RBT6T R	
U4, U5	IC CONV THERMOCOUPLE- DGTL SOIC	Analog Devices Inc./Maxim Integrated	MAX31855KASA+T	2
Y1	CRYSTAL 32.0000MHZ 9PF SMD	ABRACON	ABM8-32.000MHZ- 9-D1G-T	