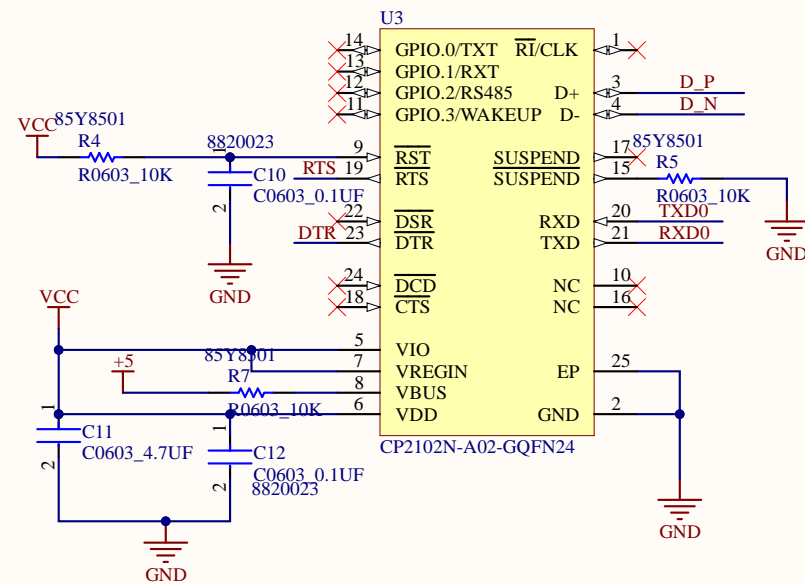
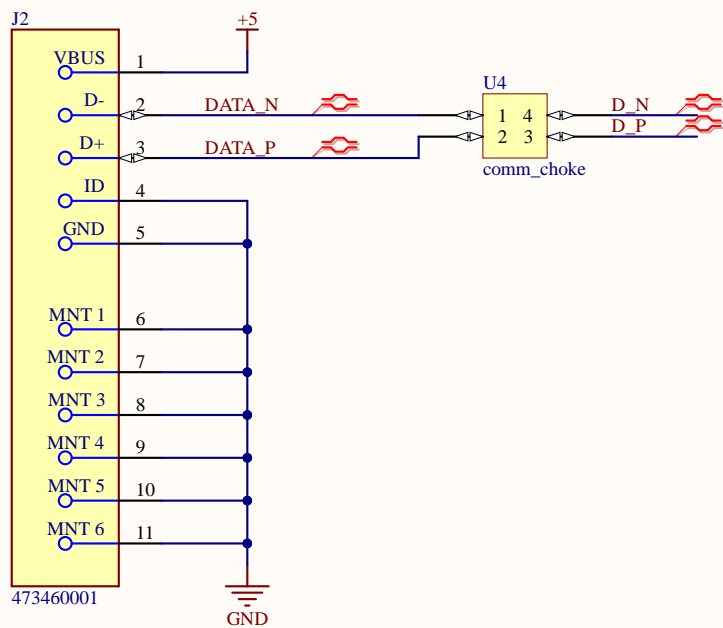
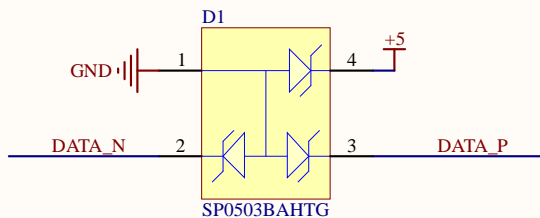
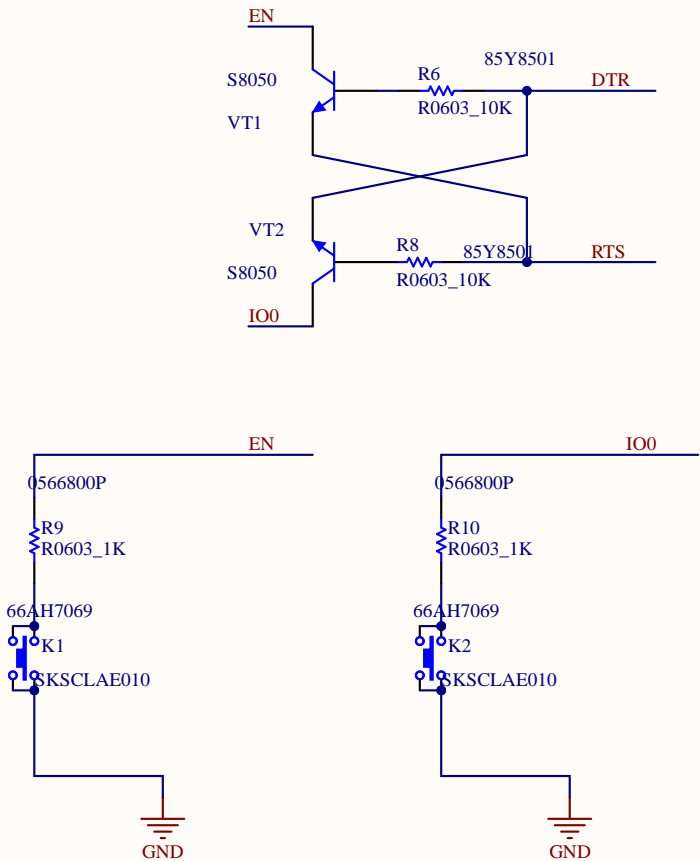


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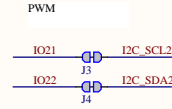
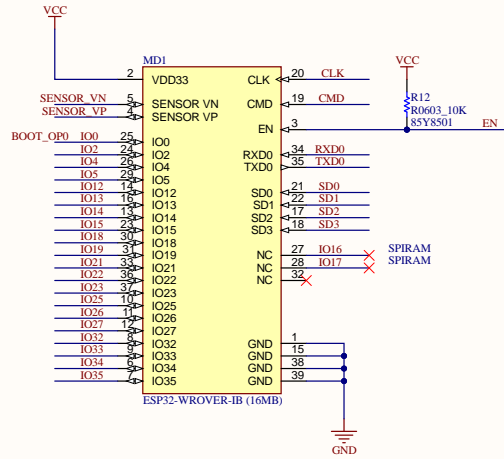
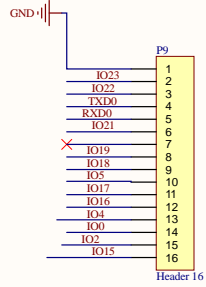
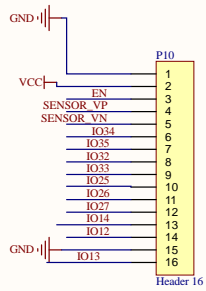


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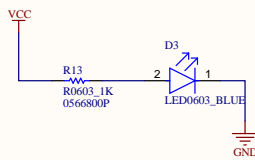
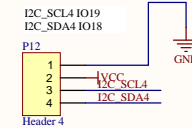
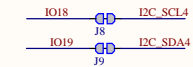
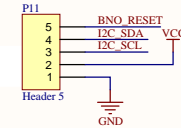
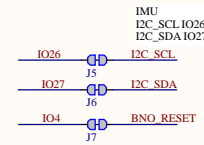
AUTO PROGRAM CIRCUIT			
DTR	RTS	RST	GPIO0
1	1	1	1
0	0	1	1
1	0	0	1
0	1	1	0

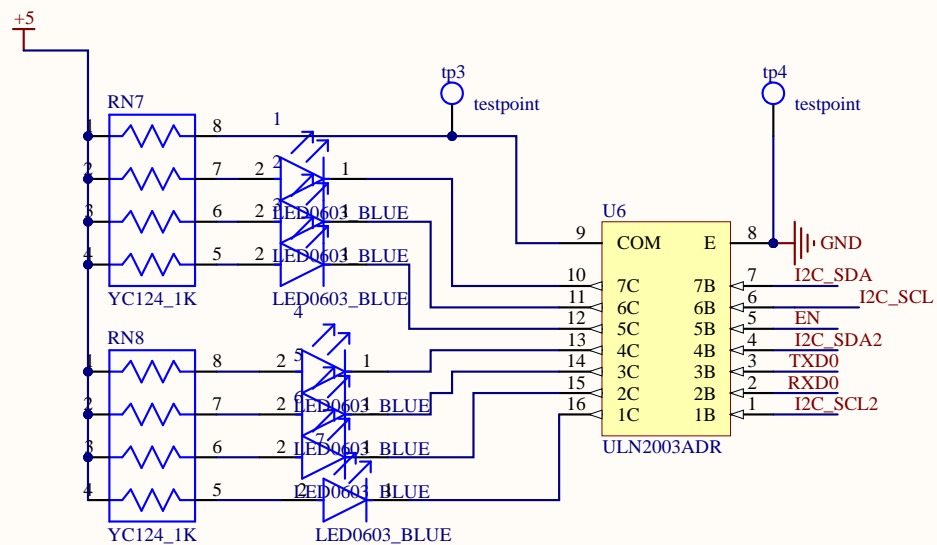


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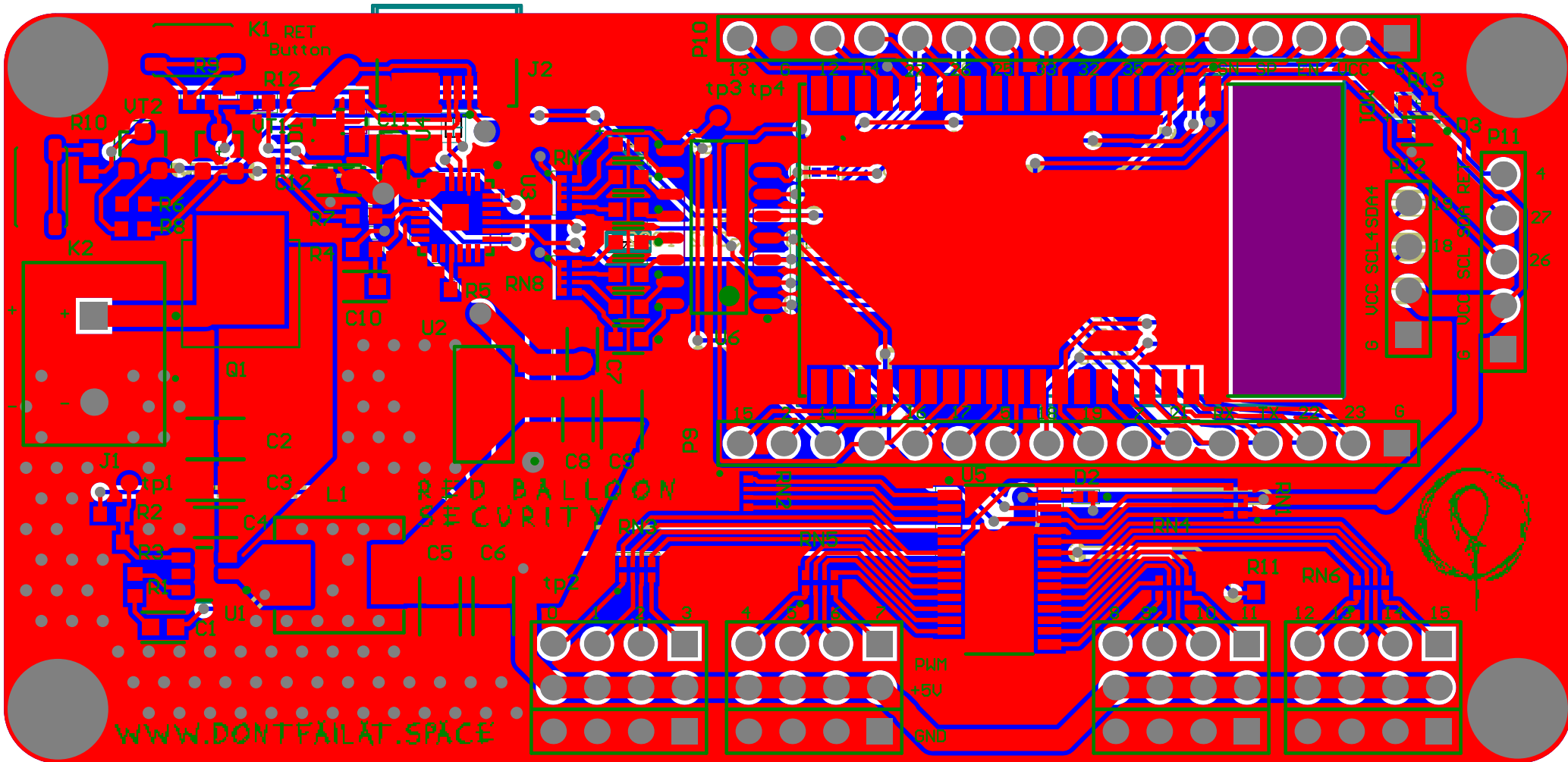


IMU
I2C_SCL IO26
I2C_SDA IO27
BNO_RESET IO4
PWM
I2C_SCL2 IO21
I2C_SDA2 IO22
GPS
I2C_SCL3 IO23
I2C_SDA3 IO25
RXD2 IO32
TXD2 IO33
OLED
I2C_SCL4 IO19
I2C_SDA4 IO18





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Date:	8/04/2021	Sheet of
File:	F:\Documents\...\06_LED_ARRAY.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
LED0603_BLUE	LED BLUE CLEAR CHIP SMD	1, 2, 3, 4, 5, 6, 7, D5	FP-1TST-C191TBKT-MFG	CMP-22017-000008-1	8
C0603_0.1UF	Multilayer Ceramic Capacitors MLC, Surface Mount 0603 0.1uF 50 Volts X7R 10%	C1, C4, C10, C12	FP-C0603C-CF-IPC_B	C0603	4
C0805_10UF	MURATA-GRM218R61E106MA73L - SMD Multilayer Ceramic Capacitor, 10 uF, 25 V, 0805 [2012 Metric], ± 20%, XSR, GRM Series	C2, C3, C9	FP-C0805C-DN-IPC_A	C0805	3
C0805_22uf	TDK - C3012X751A226M125 AC - SMD Multilayer Ceramic Capacitor, 22 uF, 10 V, 0805 [2012 Metric], ± 20%, X75, C Series	C5, C6	FP-C0805C-DN-IPC_A	C0805	2
C0603_1UF	0603 1 uF 50 V ± 10% Tolerance XSR Surface Mount Multilayer Ceramic Capacitor	C7	FP-C0603C-CF-IPC_B	C0603	1
C0603_4.7UF	CAP CER 4.7UF 0603	C8, C11	FP-C0603C-CF-IPC_B	C0603	2
SP0503BAHTG	TVS Diode Array, 30 uF, 30 kV, -40 to 85 degC, 4-Pin SOT143, RoHS, Tape and Reel	D1	LFUS-SOT143-4_V	CMP-2000-05191-1	1
UCLAMP13311T	SEMTECH - UCLAMP13311T TCT - TVS ARRAY, 40W, 3.3V, Bi-DIRECTIONAL, SLP100P2T	D2	SEMT-SLP100P2-2_V	TVS_CLAMP	1
282836-2	Female Header, Pitch 5 mm, 1 x 2 Position, Height 10 mm, Tail Length 3.5 mm, RoHS, Bulk	J1	TECO-282836-2_V	CMP-1684-00017-1	1
473460001	CONN RPT USB2.0 MICRO B SMD R/A	J2	FP-473460001-MFG	CMP-2000-05246-2	1
Jumper	Resistor	J3, J4, J5, J6, J7, J8, J9	0402-0R	Jumper	7
SKSCLAE010	Black Button Tactile Switch, Single Pole Single Throw (SPST) 50 mA 0.65mm Surface Mount	K1, K2	ButtonTACT_3.5*3.55_90	ButtonTACT	2
0650_5.6UH	0650_5.6UH, made in china	L1	FP-S8P4540-MFG	S8P4540	1
ESP32-WROVER-IB (7464B)	SMD MODULE, ESP32-D0WDC4	MD1	FP-ESP32-WROVER-MFG	CMP-194065-000005-1	1
Header 4	Header, 4-Pin	P1, P3, P6, P7, P12	HDR1X4	Header 4	3
Header 4X2	Header, 4-Pin, Dual row	P2, P4, P5, P8	HDR2X4	Header 4X2	4
Header 16	Header, 16-Pin	P9, P10	HDR1X16	Header 16	2
Header 5	Header, 5-Pin	P11	HDR1X5	Header 5	1
AOD417_P MOS-T0-252-DARP	Trans MOSFET P-CH 30V 25A 3-Pin(2+Tab) DPAK	D1	DPAK228P99X240_3_N	P MOS	1
R0603_30R	Resistor-Resistance:30ohm Resistance Tolerance: ± 1% Resistor Element Material:Thick Film Resistor Case Style:0603	R1	RESC1609K55X30L15 T15	R0603	1
R0603_52.3K	Res Thick Film 0603 52.3K Ohm 1% 0.1W(1/10W) ±100ppm/C Pad SMD Automotive T/R	R2	RESC1609K55X30L15 T15	R0603	1
R0603_10K	YISHAY - CRCW060310K0FKEA - RES, THICK FILM, 10K, 1%, 0.1W, 0603, PANASONIC - ERJ-SEKF1002V - THICK FILM CHIP RES, 0603, 1%, PRECISION	R3, R4, R5, R6, R7, R8, R11, R12	RESC1609K55X30L15 T15	R0603	8
R0603_1K	Res Thin Film 0603 1K Ohm 0.1% 1/10W ±25ppm/C Molded SMD SMD Punched Carrier T/R	R9, R10, R13	RESC1609K55X30L15 T15	R0603	3
YC124_10K		RN1, RN2	YC124	YC124	2
YC124_1K		RN3, RN4, RN5, RN6, RN7, RN8	YC124	YC124	6
testpoint		tp1, tp2, tp3, tp4	testpoint_1mm	testpoint	4
TP55633R0DCR	PWR MGMT SPECIALIZED REGULATOR	U1	FP-DDC0006A-MFG	CMP-04918-000012-1	1
MCP18265-3302Z/DB	1000mA, Low Voltage, Low Quiescent Current LDO Regulator, 3-Pin SOT-223, Extended Temperature	U2	SOT-223-DB3_L	CMP-0136-00504-1	1
CP2102N-A02-GQFN24	USBxpress(TM) Family, 4 GPIOs, 2.2 to 3.6 V, -40 to 85 degC, 24-Pin QFN, RoHS	U3	SLAB-QFN-24-2550x2550TP_A_V	CMP-2000-07570-1	1
comm_choke	EXC14CE900U	U4	EXC14CE900U	comm_choke	1
PCA9685PW.112	16-Channel, 12-Bit PWM Fm- I2C-Bus LED Controller, 2.3 to 5.5 V, -40 to 85 degC, 28-Pin TSSOP (SOT361-1), RoHS, Tape and Reel	U5	SOT361-1_V	CMP-1595-00004-2	1
ULN2003ADR	High-Voltage, High-Current Darlington Transistor Array, 0.5 A, 50 V, -20 to 70 degC, 16-Pin SOIC (U), Green (RoHS & no Sb/Br), Tape and Reel	U6	D0016A_M	CMP-2000-04953-1	1
S8050	Surface mount NPN transistor, package SOT-23	VT1, VT2	SMT_TRIODE_NPN	SMT_TRIODE_NPN	2