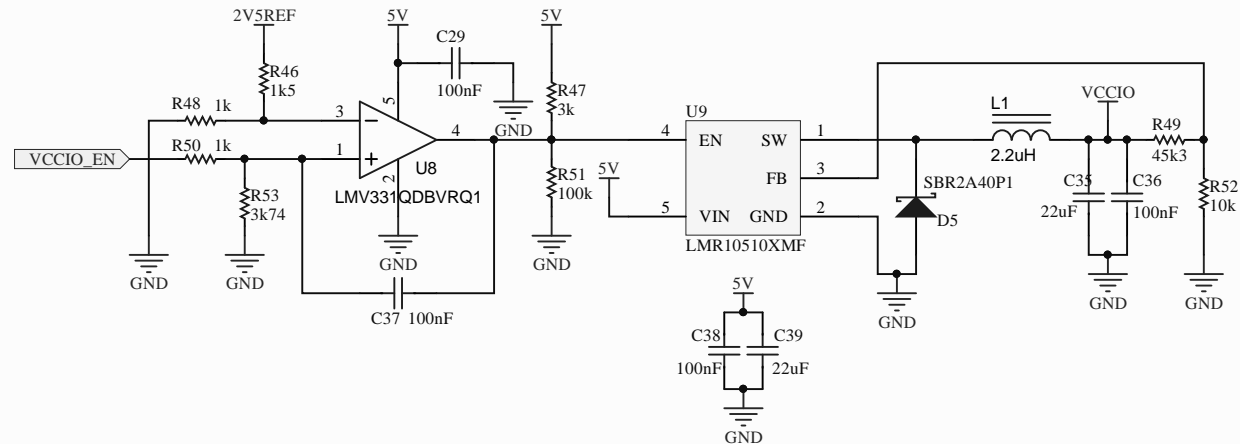
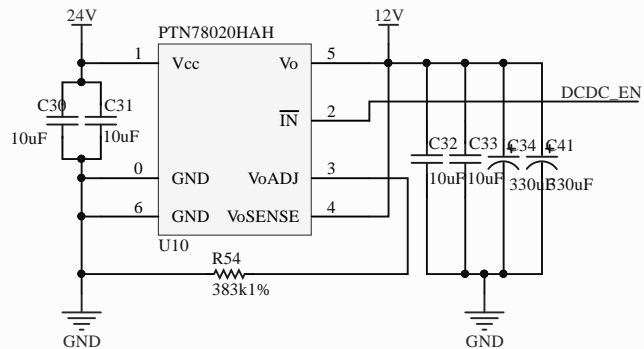
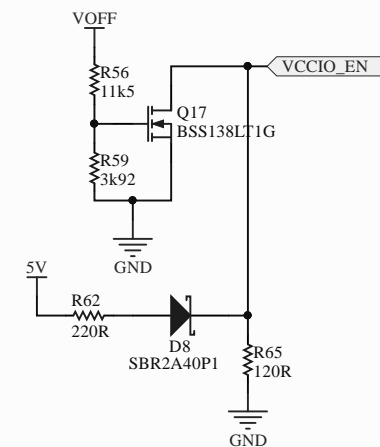
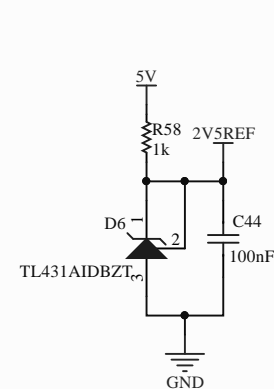
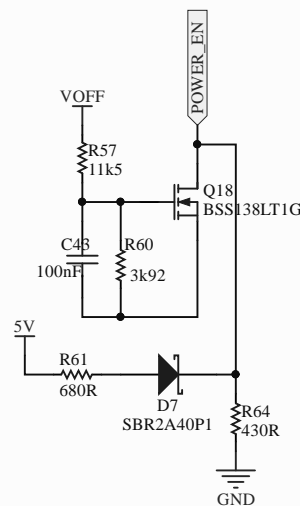
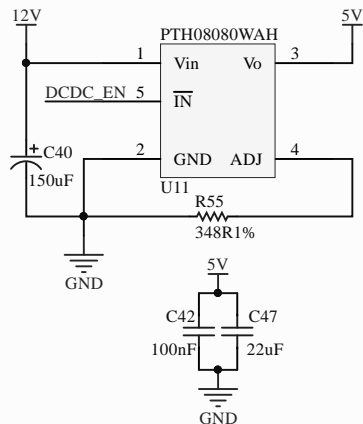


Title		
Motor Driver		
Size	Number	Revision
A4		3
Date:	19/09/2017	Sheet 2 of 4
File:	C:\Users\...\motor_driver.SchDoc	Drawn By:

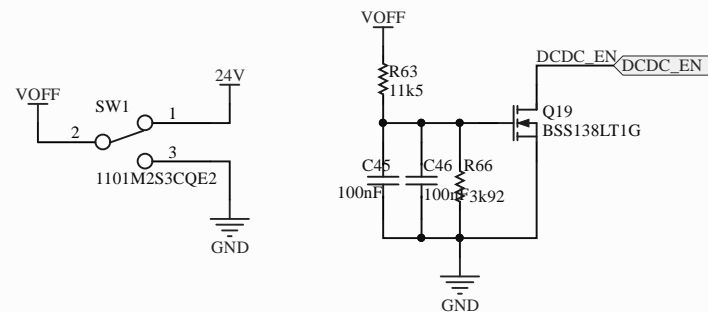
A



B



C



D

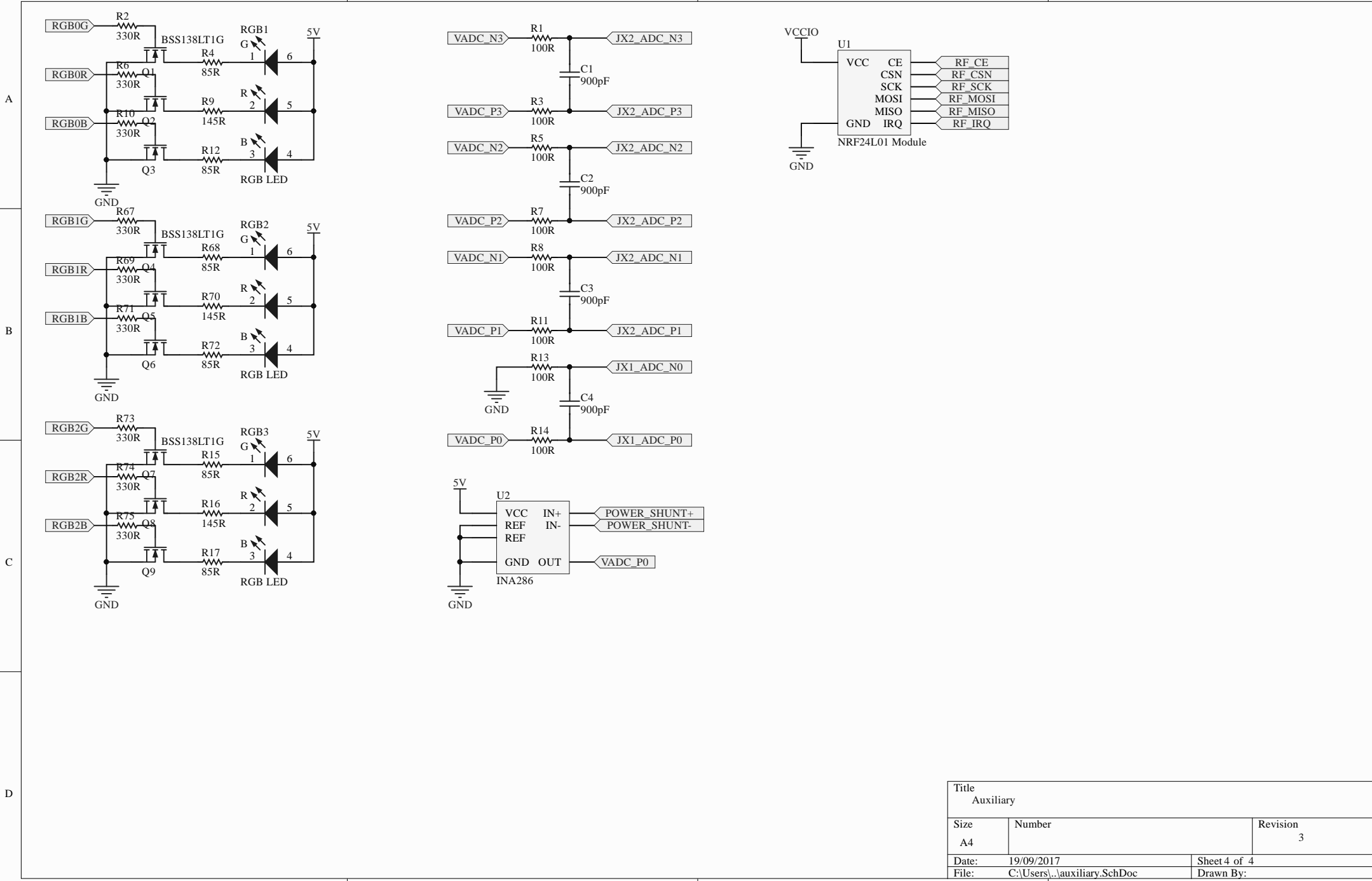
Title		
Power Delivery		
Size	Number	Revision
A4		3
Date:	19/09/2017	Sheet 3 of 4
File:	C:\Users\...\power_delivery.SchDoc	Drawn By:

A

B

C

D



Title Auxiliary		
Size A4	Number	Revision 3
Date:	19/09/2017	Sheet 4 of 4
File:	C:\Users\...\auxiliary.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity	Value
Capacitor	Capacitor	C1, C2, C3, C4 C5, C6, C7, C8, C13, C15, C20, C26, C27, C29, C36, C37, C38, C42, C43, C44, C45, C46	CAP-0402	Capacitor	4	900pf
Capacitor	Capacitor	C9, C16, C11, C12, C14, C21, C25, C35, C39, C47	CAP-0805	Capacitor	18	100nf
Capacitor	Capacitor	C22, C23, C24, C25	CAP-0805	Capacitor	10	22uf
MAL21S099911E3		C16, C17, C18, C19	CAP-1621	Electrolytic Capacitor	4	330uf
Capacitor	Capacitor	C22, C23, C24, C25	CAP-0805	Capacitor	4	1uf
Capacitor	Capacitor	C30, C31, C32, C33	CAP-0805	Capacitor	4	10uf
Electrolytic Capacitor		C34, C41	CAP - H13	Electrolytic Capacitor	2	330uf
20SPV150M		C40	CAP F12	Electrolytic Capacitor	1	150uf
US1M-E3		D1, D2, D3, D4	DO-214AC	Diode	4	
SBR240P1	Schottky Rectifier	D5, D7, D8	POWERDI-123	SBR240P1	3	
TL431AIDBZT, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, FDV303N, FDV303N, BS513BLT1G, BS513BLT1G, BS513BLT1G	Variable voltage reference, N- Channel MOSFET, N-Channel MOSFET, N- Channel MOSFET, N-Channel MOSFET, N-Channel MOSFET, N-Channel MOSFET, N-Channel MOSFET, N-Channel MOSFET, N-Channel MOSFET, N-Channel MOSFET, N-Channel MOSFET, N-Channel MOSFET, N-Channel MOSFET	D6, Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q14, Q15, Q16, Q17, Q18, Q19	FCLBERGSTAK_100 P SOT-23B	TL431AIDBZT, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, BS513BLT1G, FDV303N, FDV303N, BS513BLT1G, BS513BLT1G, BS513BLT1G	16	
BERGSTAK_100P	100p connector, BERGSTAK	JX1, JX2	FCLBERGSTAK_100 P	BERGSTAK_100P	2	
2.2uH	SRNS020-2R2Y	L1	SRNS020-2R2Y_FP	SRNS020-2R2Y	1	2.2uH
ZH-4P	P1, P4	ZH-4P	ZH-4P	ZH-4P	2	
ZH-12P	P2, P3, P6	ZH-12P	ZH-12P	ZH-12P	3	
ZH-4P	P5, P7	ZH-4P	ZH-4P	ZH-4P	2	
2P Terminal, Emergency Button		P8, Q13	2P-TERM	2P Terminal, Emergency Button	2	
ZH-5P	P9, P10	ZH-5P	ZH-5P	ZH-5P	2	
TLV3492		Q10	SOT23-B	TLV3492	1	
FX2 Relay		Q11	GABK	FX2 Relay	1	
LEV1004AANG		Q12		LEV1004AANG	1	
WR100B202		Q20, Q21, Q22, Q23	TO-220AB	WR100B202	4	
Resistor	Resistor	R1, R3, R5, R7, R8, R11, R13, R14	RES-0402	Resistor	8	100R
Resistor	Resistor	R2, R6, R10, R42, R43, R45, R67, R69, R71, R73, R74, R75	RES-0805	Resistor	12	330R
Resistor	Resistor	R4, R12, R15, R17, R68, R72	RES-0805	Resistor	6	85R
Resistor	Resistor	R9, R16, R70	RES-0805	Resistor	3	145R
Resistor	Resistor	R18, R20	RES-0805	Resistor	2	2k2
Resistor	Resistor	R19, R21	RES-0805	Resistor	2	150R
Resistor	Resistor	R22, R23, R24	RES-0805	Resistor	3	2k7
Resistor	Resistor	R25, R32	RES-2512	Resistor	2	4R7 2W
Resistor	Resistor	R26, R27, R28, R31	RES-0805	Resistor	4	7R
Resistor	Resistor	R29, R30	RES-0805	Resistor	2	220k
Resistor	Resistor	R33, R35	RES-3920	Resistor	1	200uR
Resistor	Resistor	R34, R38	RES-0805	Resistor	2	68k
Resistor	Resistor	R35, R36, R39, R41	RES-0805	Resistor	4	33k
Resistor	Resistor	R37	RES-RWS5	Resistor	1	180R 5W
Resistor	Resistor	R40, R44, R59, R60, R66	RES-0805	Resistor	5	3k92
Resistor	Resistor	R46	RES-0805	Resistor	1	1k5
Resistor	Resistor	R47	RES-0805	Resistor	1	3k
Resistor	Resistor	R48, R50, R58	RES-0805	Resistor	3	1k
Resistor	Resistor	R49	RES-0805	Resistor	1	45k3
Resistor	Resistor	R51	RES-0805	Resistor	1	100k
Resistor	Resistor	R52	RES-0805	Resistor	1	10k
Resistor	Resistor	R53	RES-0805	Resistor	1	3k74
Resistor	Resistor	R54	RES-0805	Resistor	1	38k11%
Resistor	Resistor	R55	RES-0805	Resistor	1	348R11%
Resistor	Resistor	R56, R57, R63	RES-0805	Resistor	3	31k5
Resistor	Resistor	R61	RES-0805	Resistor	1	680R
Resistor	Resistor	R62	RES-0805	Resistor	1	120R
Resistor	Resistor	R64	RES-0805	Resistor	1	430R
Resistor	Resistor	R65	RES-0805	Resistor	1	120R
RGB LED		RGB1, RGB2, RGB3	RGB_LED	LTIR RS5F	3	
1101M253CE2		SW1	1101M253CE2_FP	1101M253CE2	1	
NRF24L01 Module INA286		U1	NRF24L01 Module	NRF24L01 Module	1	
74LVC2G17	74LVC2G17 Dual non-inverting Schmitt-trigger with 5v tolerant input	U3	SOT-363	74LVC2G17	1	
HP4681		U4	SOIC-20 WB	HP4681	1	
NC75Z08, NC75Z08 ALAP-COMPARR LMV331QDBVR01, LMR10510DMF	[NoValue], [NoValue], IC SMD ALAP-COMPARR Combo SOIC-8, [NoValue]	U5, U6, U8, U9	SOT23-5	NC75Z08, NC75Z08, LMV331QDBVR01, LMR10510DMF	4	
SN74F21D	Dual 4-input AND Gate	U7	SOIC-14	SN74F21D	1	
PTH0808020AH		U10	PIN7R020	PTH0808020AH	1	
PTH0808020AH		U11	PTH0808020_FP	PTH0808020AH	1	