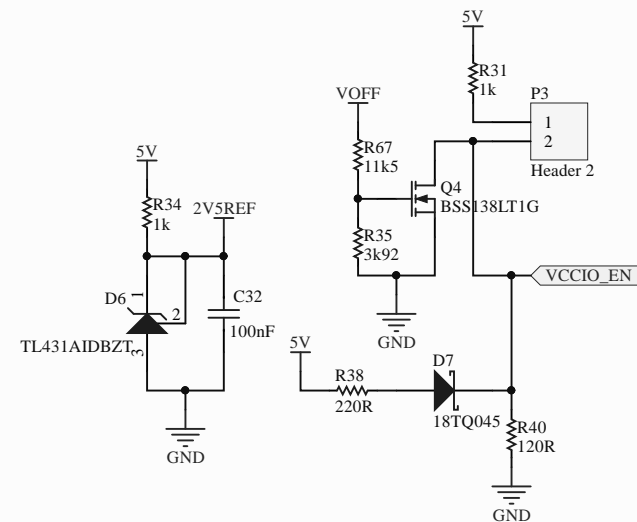
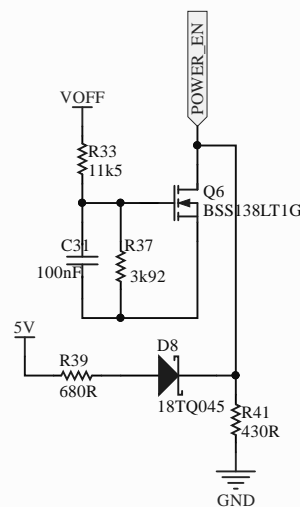
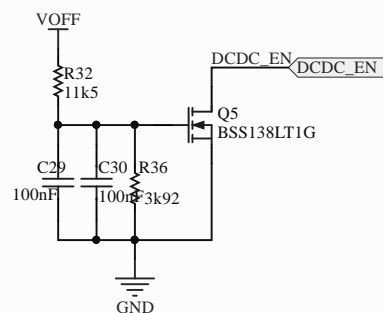
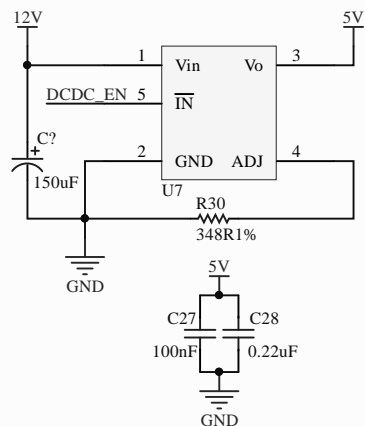
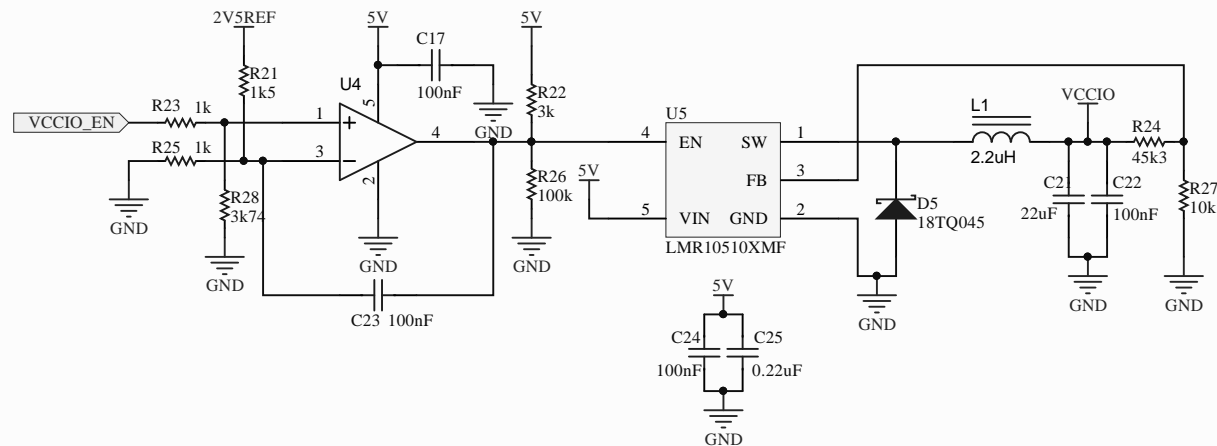
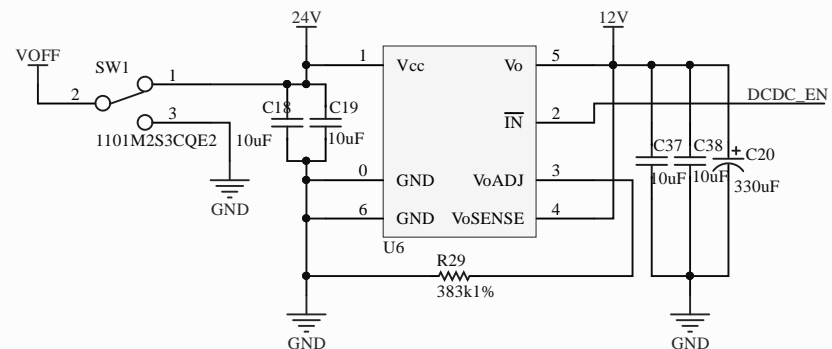


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Size A4	Number	Revision 2
Date:	15/09/2017	Sheet 2 of 4
File:	C:\Users\...\motor_driver.SchDoc	Drawn By:



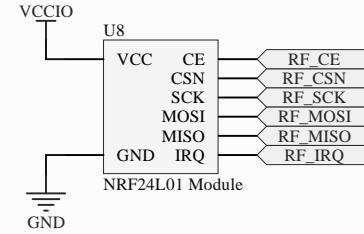
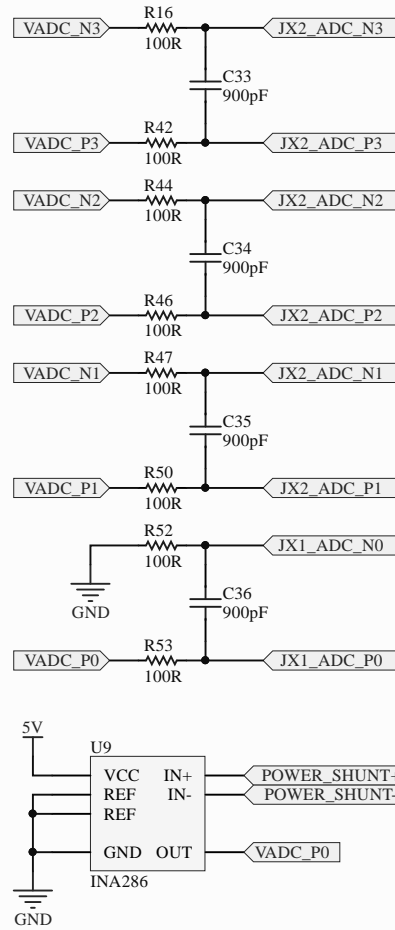
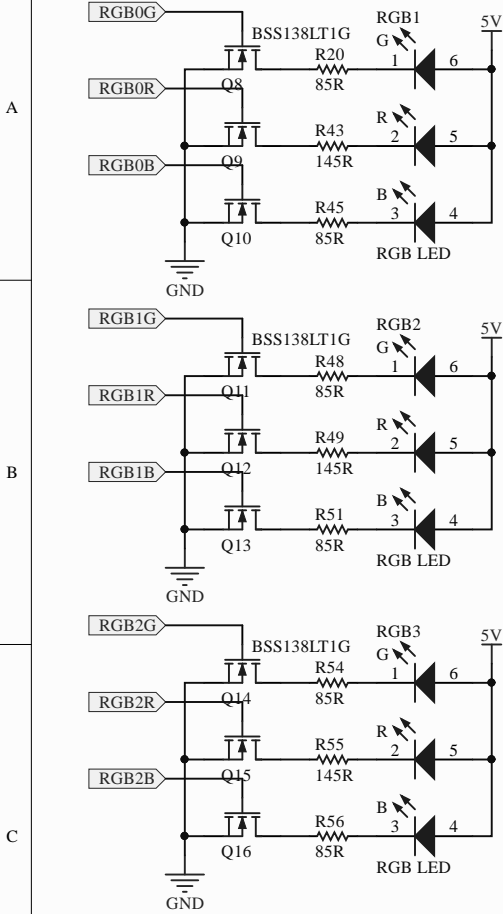
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Size A4	Number	Revision 2
Date:	15/09/2017	Sheet 3 of 4
File:	C:\Users\...\power_delivery.SchDoc	Drawn By:

A

B

C

D



Title Auxiliary		
Size A4	Number	Revision 2
Date:	15/09/2017	Sheet 4 of 4
File:	C:\Users\...\auxiliary.SchDoc	Drawn By:

A

B

C

D

Comment	Description	Designator	Footprint	LibRef	Quantity
Capacitor	Capacitor	C3, C10, C11, C12, C13, C14, C17, C18, C19, C21, C22, C23, C24, C25, C27, C28, C29, C30, C31, C32, C37, C38	0805	Capacitor	22
Capacitor	Capacitor	C4, C5, C6, C7	CAP-1621	Capacitor	4
Electrolytic Capacitor		C20, C7	CAP - H13	Electrolytic Capacitor	2
Capacitor	Capacitor	C33, C34, C35, C36	CAP-0402	Capacitor	4
Capacitor	Capacitor	C7	CAP-0805	Capacitor	14
Diode		D1, D2, D3, D4	DO-214AC	Diode	4
18TQ045	Schottky Rectifier	D5, D7, D8	POWERDI-123	18TQ045	3
TL431AIDBZT	Variable voltage reference	D6	SOT-23B	TL431AIDBZT	1
BERGSTAK 100P	100p connector, BERGSTAK	JX1, JX2	FCL_BERGSTAK_100P	BERGSTAK 100P	2
2.2uH	SRN5020-2R2Y	L1	SRN5020-2R2Y_FP	SRN5020-2R2Y	1
ZH-6P		P1, P5	ZH-6P	ZH-6P	2
2P Terminal		P2	2P-TERM	2P Terminal	1
Header 2	Header, 2-Pin	P3	HDR1X2	Header 2	1
ZH-12P		P3, P4, P7	ZH-12P	ZH-12P	3
ZH-4P		P6, P8	ZH-4P	ZH-4P	2
ZH-5P		P9, P?	ZH-5P	ZH-5P	2
TLV3492		Q1		TLV3492	1
FX2 Relay		Q2	G6BK	FX2 Relay	1
BSS138LT1G	N-Channel MOSFET	Q3, Q4, Q5, Q6, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16	SOT-23B	BSS138LT1G	13
LEV100A4ANG		Q7		LEV100A4ANG	1
Emergency Button		Q17		Emergency Button	1
FDV303N		Q18, Q19	SOT-23B	FDV303N	2
Resistor	Resistor	R1, R8	RES-2512	Resistor	2
Resistor	Resistor	R2, R3, R4, R5, R6, R7, R10, R11, R12, R13, R14, R15, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R43, R45, R48, R49, R51, R54, R55, R56, R66, R67	0805	Resistor	47
Resistor	Resistor	R9	RES-3920	Resistor	1
Resistor	Resistor	R16, R42, R44, R46, R47, R50, R52, R53	RES-0402	Resistor	8
Resistor	Resistor	R57, R58, R59, R60, R61, R62, R63, R65		Resistor	8
Resistor	Resistor	R64	RES-RWS5	Resistor	1
RGB LED		RGB1, RGB2, RGB3	RGB_LED	LTRB R8SF	3
IPP045N10N3		S1, S2, S3, S4	TO-220AB	IPP045N10N3	4
1101M2S3CQE2		SW1	1101M2S3CQE2_FP	1101M2S3CQE2	1
74LVC2G17	74LVC2G17 Dual non-inverting Schmitt-trigger with 5v tolerant input	U1	SOT-363	74LVC2G17	1
HIP4081		U2	SOIC-20 WB	HIP4081	1
SN74F21D	Dual 4-Input AND Gate	U3	SOIC-14	SN74F21D	1
TLV2702	IC SMD AMP+ COMPAR Combo SOIC-8	U4	SOT23-5	LMV331QDBVRQ1	1
LMR10510XMF		U5	SOT23-5	LMR10510XMF	1
PTN78020HAH		U6	PTN78020	PTN78020HAH	1
PTH08080WAH		U7	PTH08080W_FP	PTH08080WAH	1
NRF24L01 Module		U8		NRF24L01 Module	1
INA286		U9	SOIC-8	INA286	1
NC7SZ08		U10, U11		NC7SZ08	2