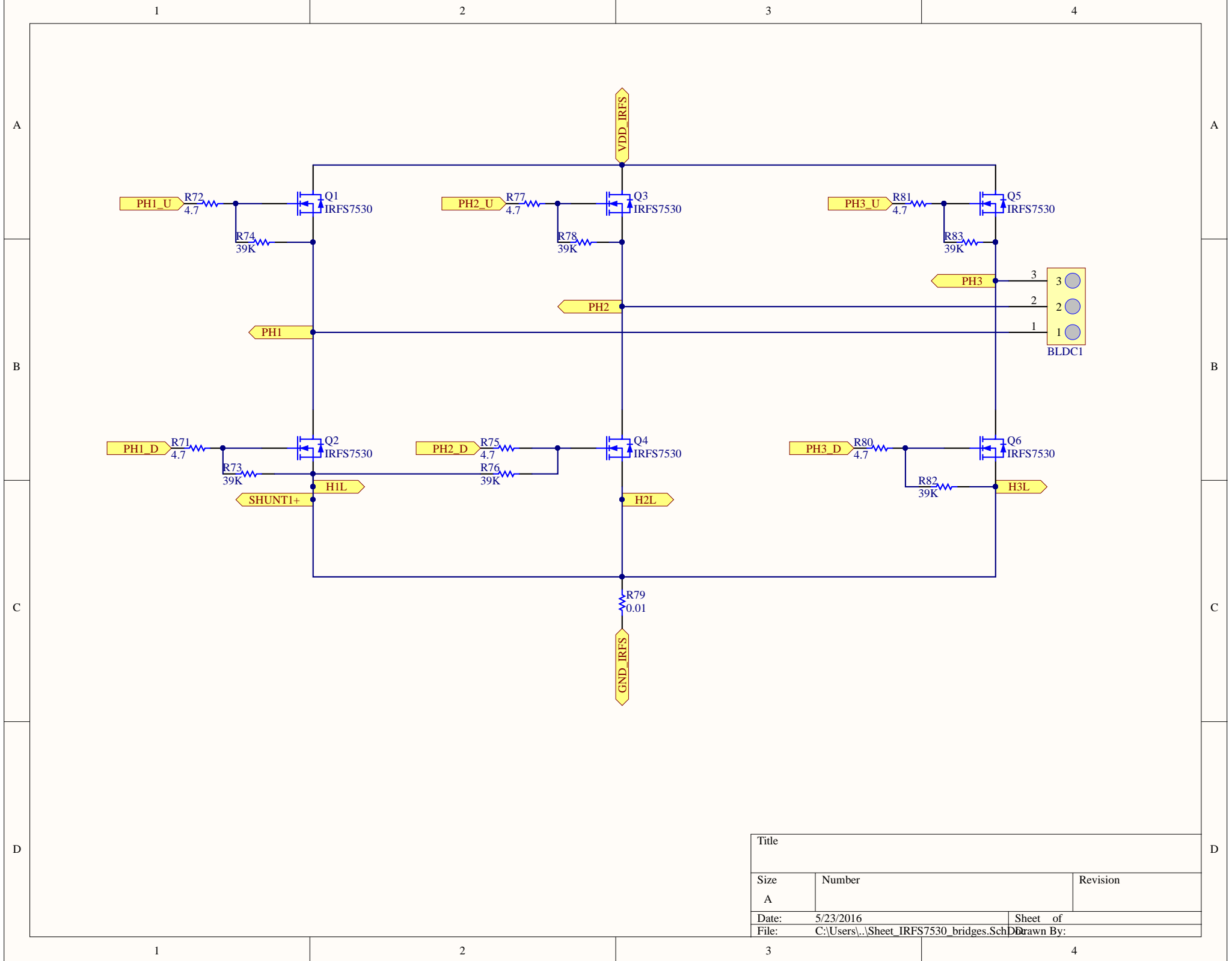
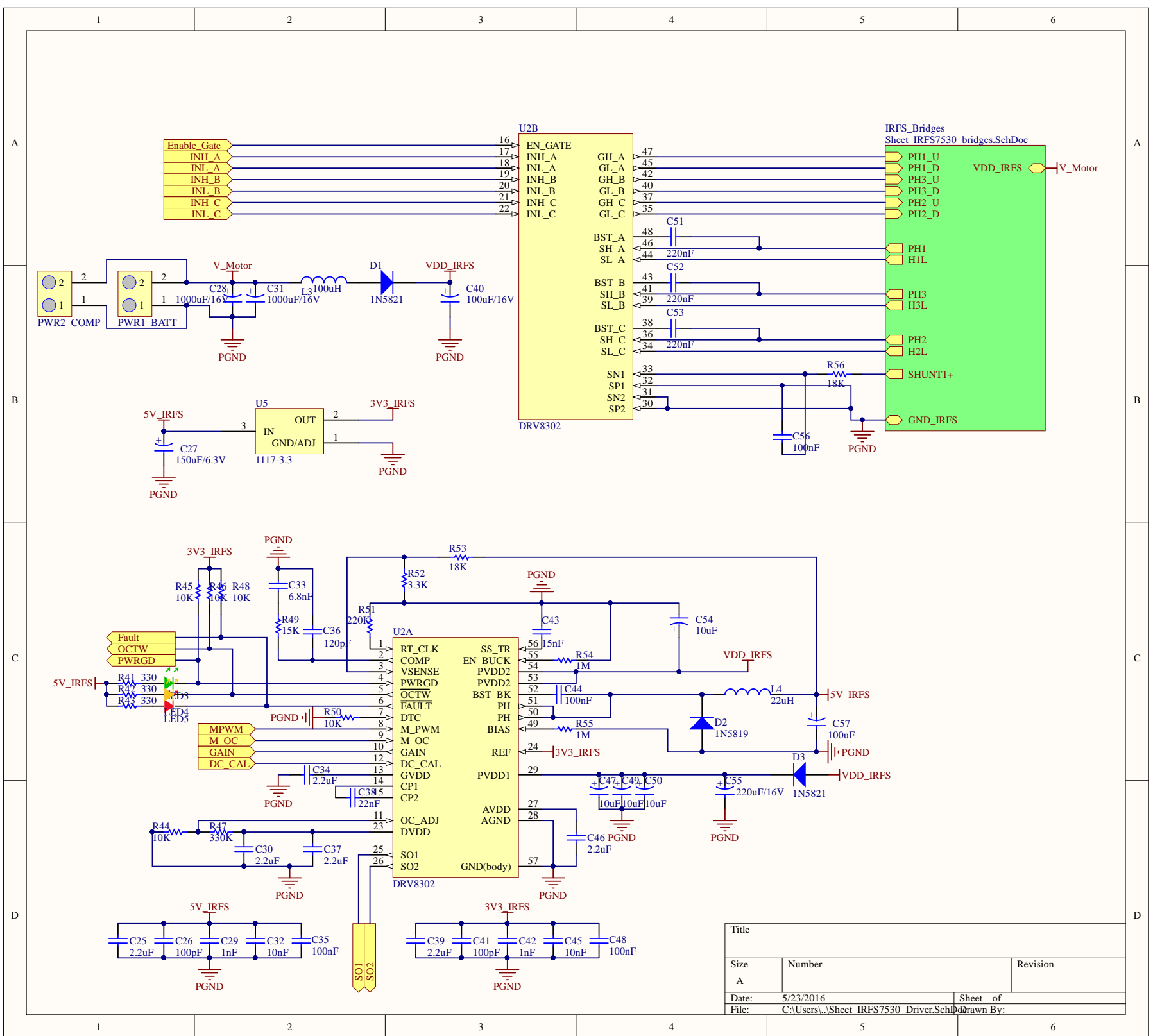


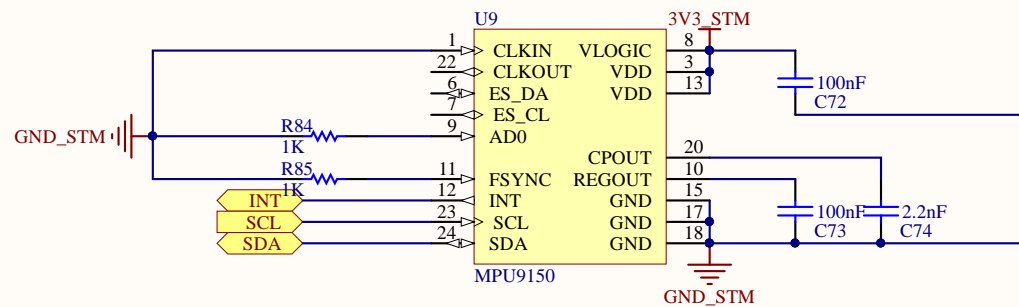
Title		
Size	Number	Revision
A		
Date:	5/23/2016	Sheet of
File:	C:\Users\...\Sheet_FT4232_USB.SchDoc	Drawn By:



Title		
Size	Number	Revision
A		
Date:	5/23/2016	Sheet of
File:	C:\Users\...\Sheet_IRFS7530_bridges.SchDoc	Drawn By:



Title		
Size	Number	Revision
A		
Date:	5/23/2016	Sheet of
File:	C:\Users\...\Sheet_IRFS7530_Driver.SchDoc	Drawn By:



Title		
Size	Number	Revision
A		
Date:	5/23/2016	Sheet of
File:	C:\Users\...\Sheet_MPU9150_IMU.SchDoc	Drawn By:

A

B

C

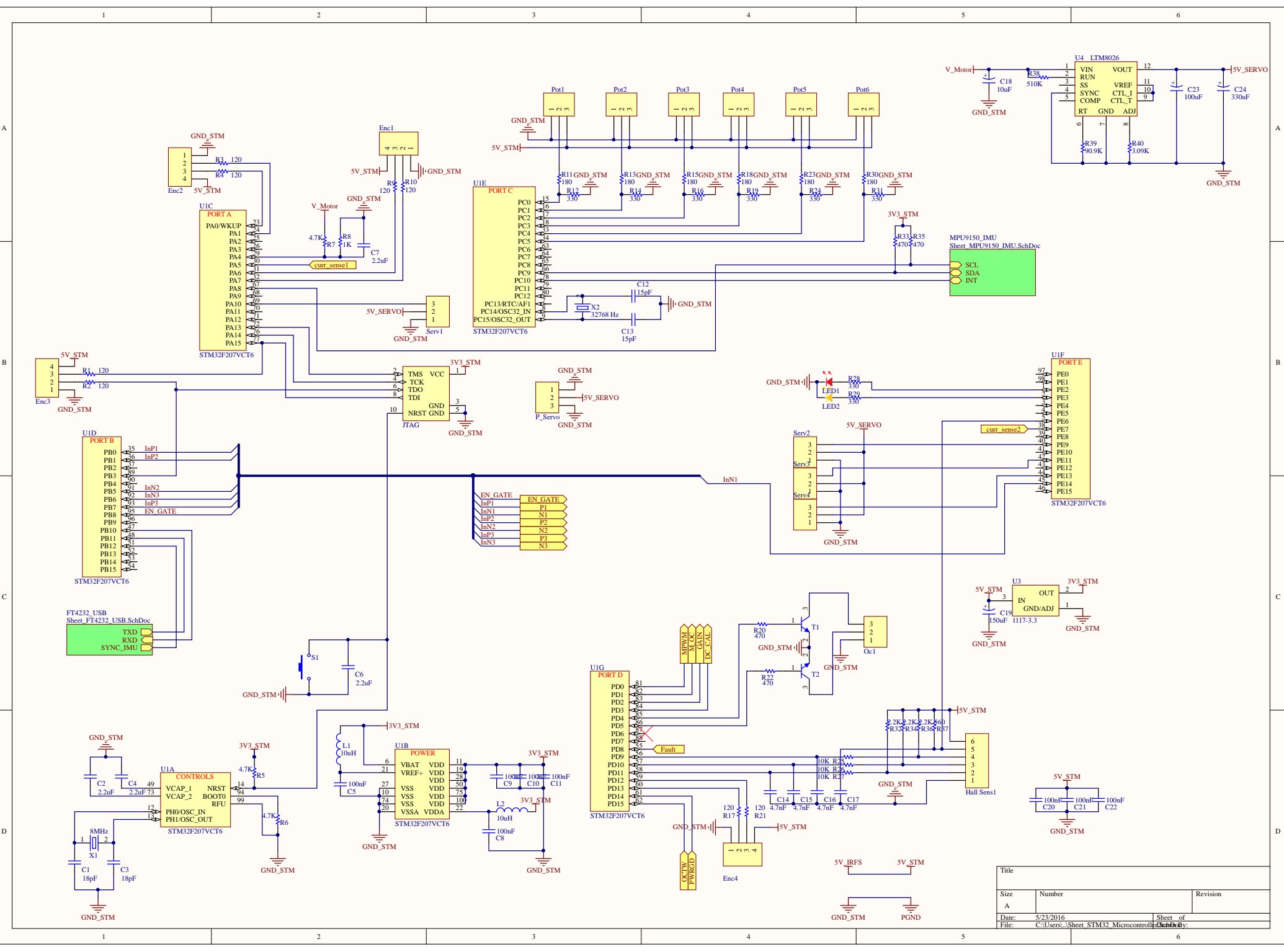
D

A

B

C

D



Title		
Size	Number	Revision
A		
Date:	5/23/2016	Sheet of
File:	C:\Users\...Sheet_STM32_Microcontrol...	Sheet By:

Item #	Designator	Comment	#Column Name Error:Value	Quantity	Footprint
1	BLDC1	Terminal3		1	TERM3
2	C1, C3	18pF		2	1608[0603]
3	C2, C4, C6, C7, C25, C30, C34, C37, C39, C46	2.2uF		10	1608[0603]
4	C5, C8, C9, C10, C11, C20, C21, C22, C35, C44, C48, C56, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73	100nF		23	1608[0603]
5	C12, C13	15pF		2	1608[0603]
6	C14, C15, C16, C17	4.7nF		4	1608[0603]
7	C18, C47, C49, C50, C54	10uF		5	6032 [2312]
8	C19	150uF		1	6032 [2312]
9	C23, C57	100uF		2	6032 [2312]
10	C24	330uF		1	6032 [2312]
11	C26, C41	100pF		2	1608[0603]
12	C27	150uF/6.3V		1	6032 [2312]
13	C28, C31	1000uF/16V		2	Large SMD Cap
14	C29, C42	1nF		2	1608[0603]
15	C32, C45	10nF		2	1608[0603]
16	C33	6.8nF		1	1608[0603]
17	C36	120pF		1	1608[0603]
18	C38	22nF		1	1608[0603]
19	C40	100uF/16V		1	6032 [2312]
20	C43	15nF		1	1608[0603]
21	C51, C52, C53	220nF		3	1608[0603]
22	C55	220uF/16V		1	6032 [2312]
23	C58, C60	4.7uF		2	6032 [2312]
24	C59, C62	27pF		2	1608[0603]
25	C61	3.3uF		1	1608[0603]
26	C74	2.2nF		1	1608[0603]
27	D1, D3	1N5821		2	DIODE-2
28	D2	1N5819		1	DIODE-3
29	H1	Enc3		1	Header 4 -MolexPicoBlade
30	H2	Enc2		1	Header 4 -MolexPicoBlade
31	H3	Enc1		1	Header 4 -MolexPicoBlade
32	H4	JTAG		1	HDR-2*5-0.05
33	H5	Serv1		1	Header 3 -MolexPicoBlade
34	H6	P Servo		1	Header 3 -MolexPicoBlade
35	H7	Pot1		1	Header 3 -MolexPicoBlade
36	H8	Pot2		1	Header 3 -MolexPicoBlade
37	H9	Pot3		1	Header 3 -MolexPicoBlade
38	H10	Pot4		1	Header 3 -MolexPicoBlade
39	H11	Enc4		1	Header 4 -MolexPicoBlade
40	H12	Pot5		1	Header 3 -MolexPicoBlade
41	H13	Serv2		1	Header 3 -MolexPicoBlade
42	H14	Serv3		1	Header 3 -MolexPicoBlade
43	H15	Serv4		1	Header 3 -MolexPicoBlade
44	H16	Pot6		1	Header 3 -MolexPicoBlade
45	H17	Oc1		1	Header 3 -MolexPicoBlade
46	H18	Hall Sens1		1	Header 6 ZH-SM4
47	H19	USB1		1	Header 4 -MolexPicoBlade
48	H20	GPS_Con		1	Header 6 ZH-SM4
49	H21	IMU_Con		1	Header 6 -MolexPicoBlade
50	L1, L2	10uH		2	0805
51	L3	100uH		1	VLC2
52	L4	22uH		1	VLC2
53	L5, L6	7H		2	0805
54	LED1, LED5, LED6	LEDR		3	2012[0805]
55	LED2, LED4	LEDY		2	2012[0805]
56	LED3	LEDG		1	2012[0805]
57	PWR1 BATT, PWR2 COMP	Terminal2		2	TERM2
58	Q1, Q2, Q3, Q4, Q5, Q6	IRFS7530		6	D2PAK-7Pin
59	R1, R2, R3, R4, R9, R10, R17, R21, R69, R70	120		10	1608[0603]
60	R5, R6, R7, R61	4.7K		4	1608[0603]
61	R8, R63, R84, R85	1K		4	1608[0603]
62	R11, R13, R15, R18, R23, R30	180		6	1608[0603]
63	R12, R14, R16, R19, R24, R28, R29, R31, R41, R42, R43, R68	330		12	1608[0603]
64	R20, R22, R33, R35	470		4	1608[0603]
65	R25, R26, R27, R44, R45, R46, R48, R50, R58, R59, R60, R62	10K		12	1608[0603]
66	R32, R34, R36, R57	2.2K		4	1608[0603]
67	R37, R67	560		2	1608[0603]
68	R38	510K		1	1608[0603]
69	R39	30.9K		1	1608[0603]
70	R40	3.39K		1	1608[0603]
71	R47	330K		1	1608[0603]
72	R49	15K		1	1608[0603]
73	R51	220K		1	1608[0603]
74	R52	3.3K		1	1608[0603]
75	R53, R56	18K		2	1608[0603]
76	R54, R55	1M		2	1608[0603]
77	R64	12K		1	1608[0603]
78	R65, R66	DNI		2	1608[0603]
79	R71, R72, R75, R77, R80, R81	4.7		6	1608[0603]
80	R73, R74, R76, R78, R82, R83	39K		6	1608[0603]
81	R79	0.01		1	1608[0603]
82	S1	SW TACT		1	PTS645SH50SMTR92_LFS
83	T1, T2	BC817		2	SOT-23
84	U1	STM32F207VCT6		1	LQFP100_M
85	U2	DRV8302		1	DRV8302
86	U3, U5	1117-3.3		2	SOT-223
87	U4	LTM8026		1	LGA Package
88	U6	AT93C46DN-SP25-B		1	8S1_M
89	U7	FT4232HQ-Reel		1	QFN64_2_L
90	U8	MAX3485		1	SOTC8
91	U9	MPU9150		1	QFN24
92	X1	8MHz		1	ABM7
93	X2	32768 Hz		1	0805
94	X3	12MHz		1	ABM7