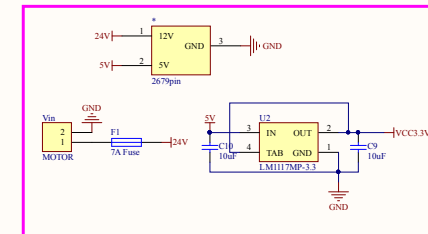
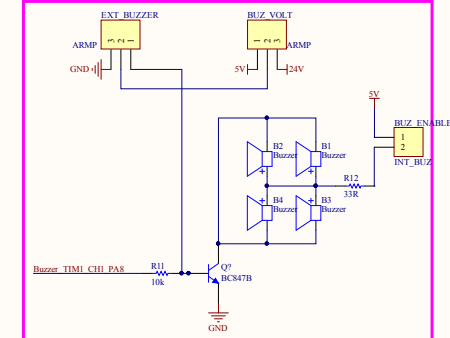


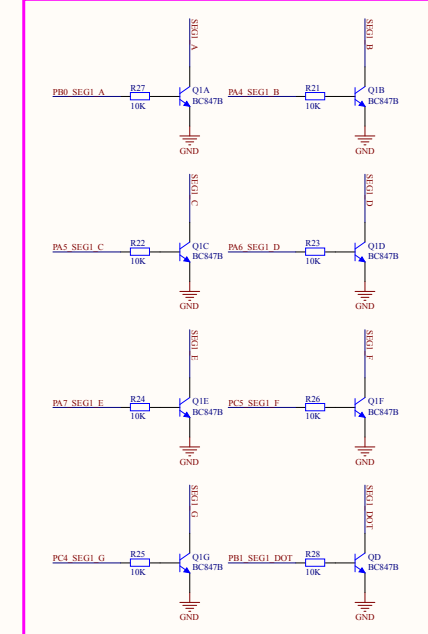
POWER



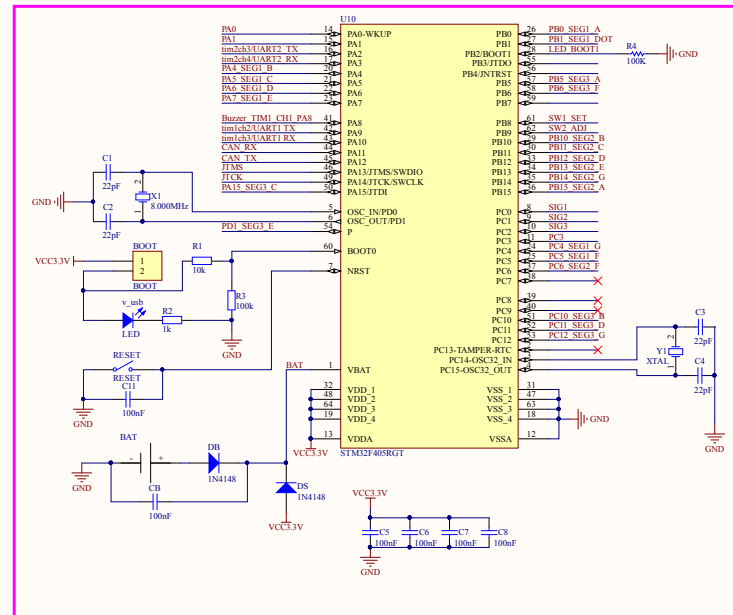
BUZZER



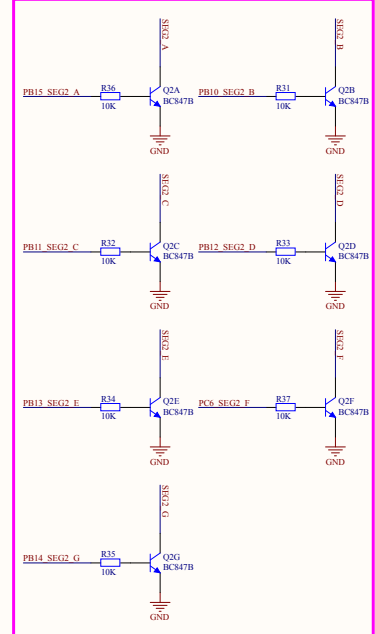
7-SEGMENT No.1 (MIN)



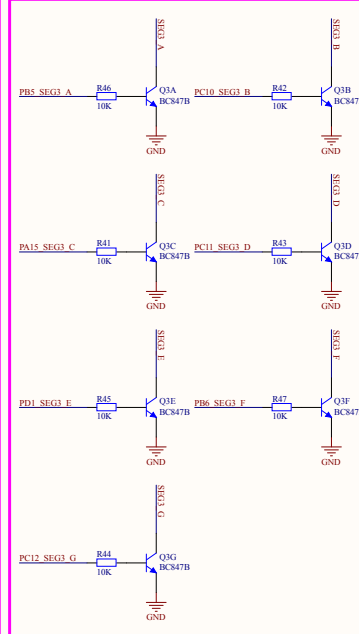
MCU



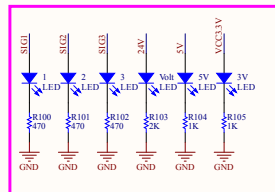
7-SEGMENT No.2 (10 SEC)



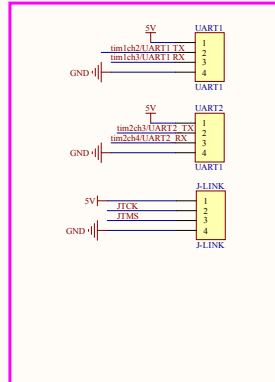
7-SEGMENT No.3 (SEC)



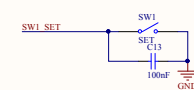
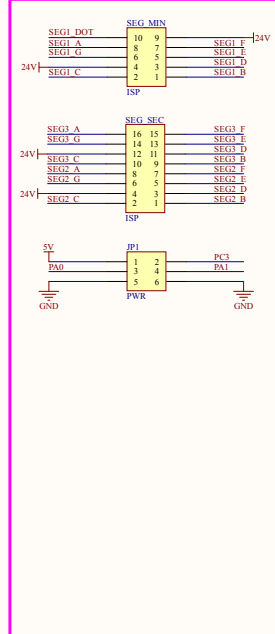
LED



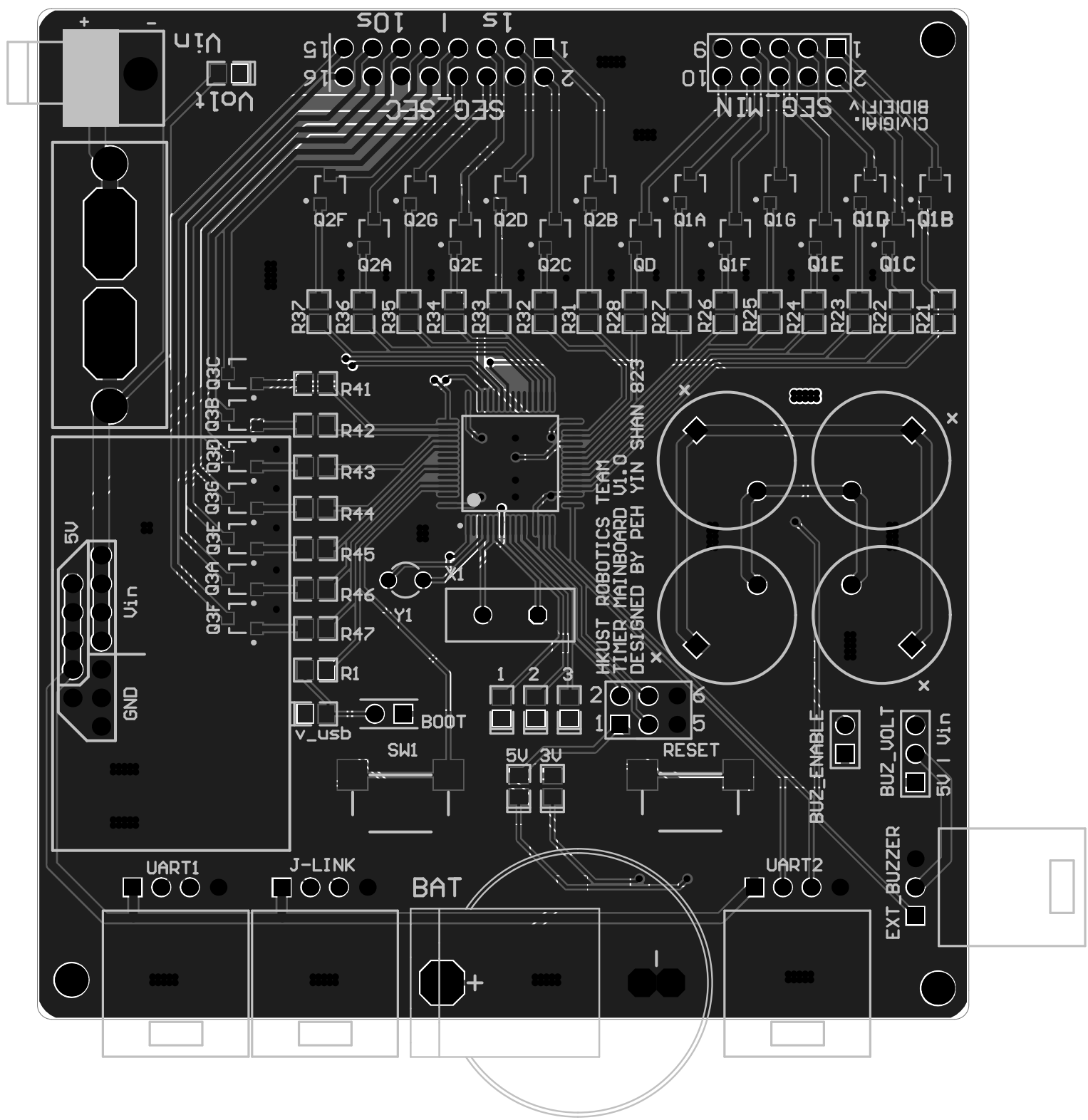
UART / J-LINK



CONNECTORS



Title		
Size A2	Number	Revision
Date 13/7/2015	File C:\Users\jstanger\VI SchDoc	Sheet of Drawn by



Comment	Description	Designator	Footprint	LibRef	Quantity
2679pin			PCBComponent_1	2679pin	1
LED	Typical RED GaAs LED	1, 2, 3, 3V, 5V, v.usb, Volt	D0805	LED	7
Buzzer		B1, B2, B3, B4	POL_BUZZER-12.0	Buzzer	4
3V Battery		BAT	3V Battery	3V Battery	1
BOOT	Header, 2-Pin	BOOT	HDR1X2	Header 2	1
INT_BUZ	Header, 2-Pin	BUZ_ENABLE	HDR1X2	Header 2	1
ARM_P	Header, 3-Pin	BUZ_VOLT	HDR1X3	Header 3	1
22pF	Capacitor (Semiconductor SIM Model)	C1, C2, C3, C4	CC2012-0805	Cap Semi	4
100nF	Capacitor (Semiconductor SIM Model)	C5, C6, C7, C8, C11, C13, CB	CC2012-0805	Cap Semi	7
10uF	Capacitor (Semiconductor SIM Model)	C9, C10	CC2012-0805	Cap Semi	2
1N4148	General Purpose Diode	DB, D5	SOD-80	D General	2
ARM_P	Header, 3-Pin	EXT_BUZZER	LOCKEDHDR-3W	Header 3	1
7A Fuse	Fuse	F1	FUSE SOCKET	Fuse	1
J-LINK	Header, 4-Pin	J-LINK	LOCKEDHDR-4W	Header 4	1
PWR	Header, 3-Pin, Dual row	JP1	HDR2X3	Header 3X2	1
BC847B	NPN	Q1A, Q1B, Q1C, Q1D, Q1E, Q1F, Q1G, Q2A, Q2B, Q2C, Q2D, Q2E, Q2F, Q2G, Q3A, Q3B, Q3C, Q3D, Q3E, Q3F, Q3G, Q?, QD	SOT-23	BC847B	23
10k	Resistor, Semiconductor Resistor	R1, R11	CR2012-0805	Res2, Res Semi	2
1k	Resistor, Semiconductor Resistor, Semiconductor Resistor	R2, R104, R105	CR2012-0805	Res2, Res Semi, Res Semi	3
100k	Resistor, Semiconductor Resistor	R3, R4	CR2012-0805	Res2, Res Semi	2
33R	Semiconductor Resistor	R12	CR2012-0805	Res Semi	1
Res2	Resistor	R21, R22, R23, R24, R25, R26, R27, R28, R31, R32, R33, R34, R35, R36, R37, R41, R42, R43, R44, R45, R46, R47	CR2012-0805	Res2	22
470	Semiconductor Resistor	R100, R101, R102	CR2012-0805	Res Semi	3
2K	Semiconductor Resistor	R103	CR2012-0805	Res Semi	1
RESET	Single-Pole, Single-Throw Switch	RESET	PUSH SWITCH	SW-SPST	1
ISP	Header, 5-Pin, Dual row	SEG_MIN	HDR2X5	Header 5X2	1
ISP	Header, 8-Pin, Dual row	SEG_SEC	HDR2X8	Header 8X2	1
SET	Single-Pole, Single-Throw Switch	SW1	PUSH SWITCH	SW-SPST	1
LM1117MP-3.3	800mA Low-Dropout Linear Regulator	U2	MP04A_N	LM1117MP-3.3	1
STM32F405RGT	STM32 ARM-based 32-bit MCU with 128 Kbytes Flash, 64-pin LQFP, Industrial Temperature	U10	LQFP64_N	STM32F103RBT6	1
UART1	Header, 4-Pin	UART1, UART2	LOCKEDHDR-4W	Header 4	2
MOTOR	Header, 2-Pin	Vin	LOCKEDPWRHDR	Header 2	1
8.000MHz	Crystal Oscillator	X1	BCY-W2/E4.7	XTAL	1
XTAL	Crystal Oscillator	Y1	R38	XTAL	1