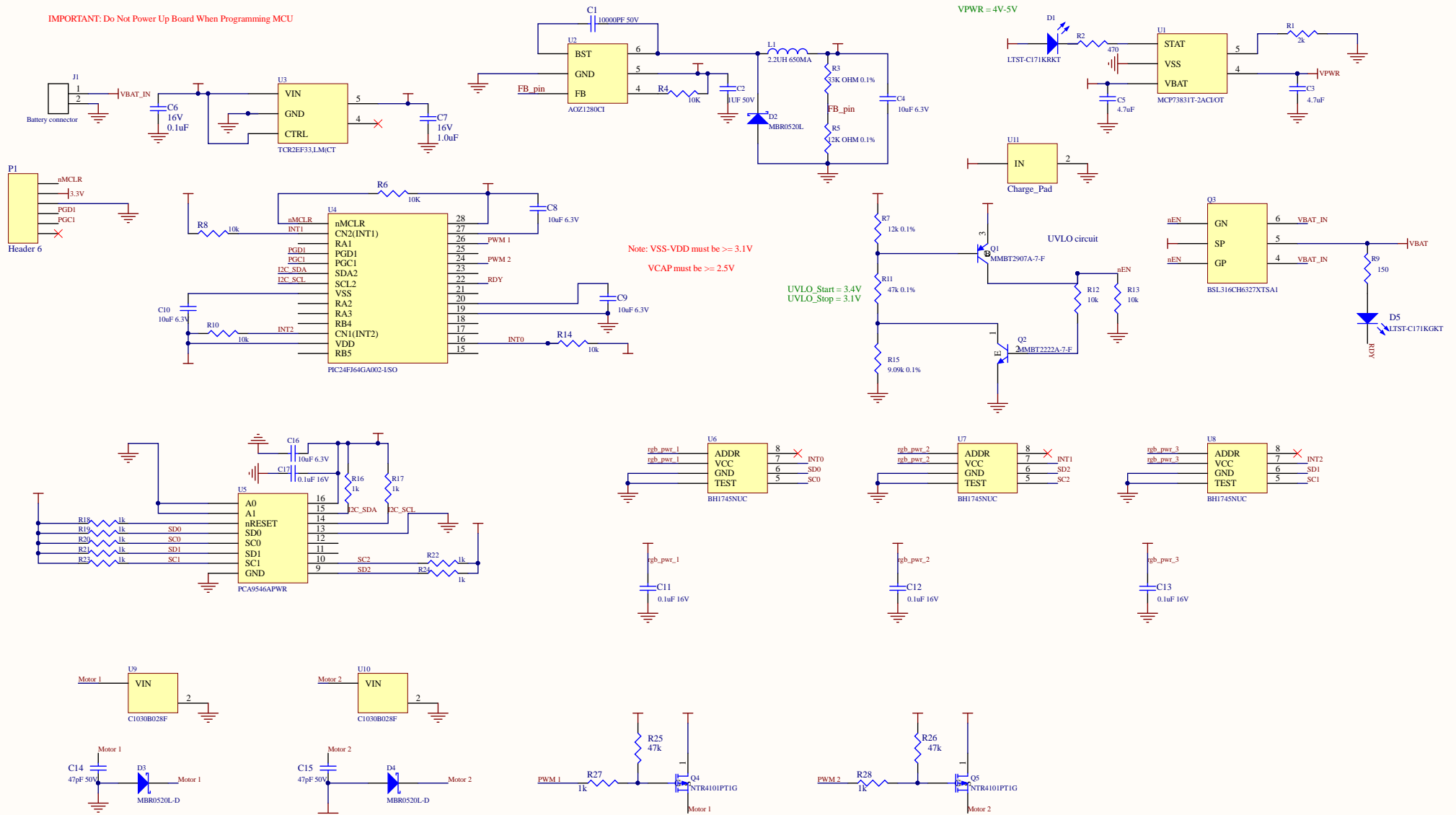


IMPORTANT: Do Not Power Up Board When Programming MCU



Title		
Size	Number	Revision
B		
Date:	3/31/2019	Sheet of
File:	Y3Swarm_Bots/board_schematic.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
Cap Semi	Capacitor (Semiconductor SIM Model)	C1, C2, C3, C4, C5, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17	1608[0603]	Cap Semi	15
16V	Capacitor (Semiconductor SIM Model)	C6, C7	1608[0603]	Cap Semi	2
LTST-C171KRKT	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D1	LED_pcb	LED2	1
MBR0520L	Schottky Diode	D2	SMB	D Schottky	1
MBR0520L-D	Schottky Diode	D3, D4	SODFL375X128-2N	D Schottky	2
LTST-C171KGKT	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D5	LED_pcb	LED2	1
Battery connector	PH Series 2 Position 2.0 mm Through Hole Side Entry Shrouded Header	J1	JST_S2B-PH-K-S(LF)(SN)	S2B-PH-K-S(LF)(SN)	1
I	Inductor	L1	0603	Inductor	1
Header 6	Header, 6-Pin	P1	HDR1X6	Header 6	1
MMBT2907A-7-F	PNP Bipolar Transistor	Q1	SOT90P240X110-3N	PNP	1
MMBT2222A-7-F	NPN Bipolar Transistor	Q2	SOT90P240X110-3N	NPN	1
BSL316CH6327XTSA1		Q3	TSOP95P250X110-6N	Component_1	1
NTR4101PT1G	P-Channel MOSFET	Q4, Q5	SOT95P290X111-3N	MOSFET-P	2
Res3	Resistor	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R21, R22, R23, R24, R25, R26, R27, R28	J1-0603	Res3	23
1k	Resistor	R16, R17, R18, R19, R20	J1-0603	Res3	5
MCP73831T-2ACI/OT		U1	SOT95P270X145-5N	Component_1	1
AOZ1280CI		U2	SOT95P280X125-6N	Component_1	1
TCR2EF33,LM(CT		U3	SOT95P275X111-5N	Component_1	1
PIC24FJ64GA002-I/SO		U4	SOIC127P1030X265-28N	Component_1	1
PCA9546APWR		U5	PCA9546APWR	Component_1	1
BH1745NUC		U6, U7, U8	*UDFN-8	Component_1	3
C1030B028F		U9, U10	PCBComponent_1	Component_1	2
Charge_Pad		U11	charge_pad	Component_1	1