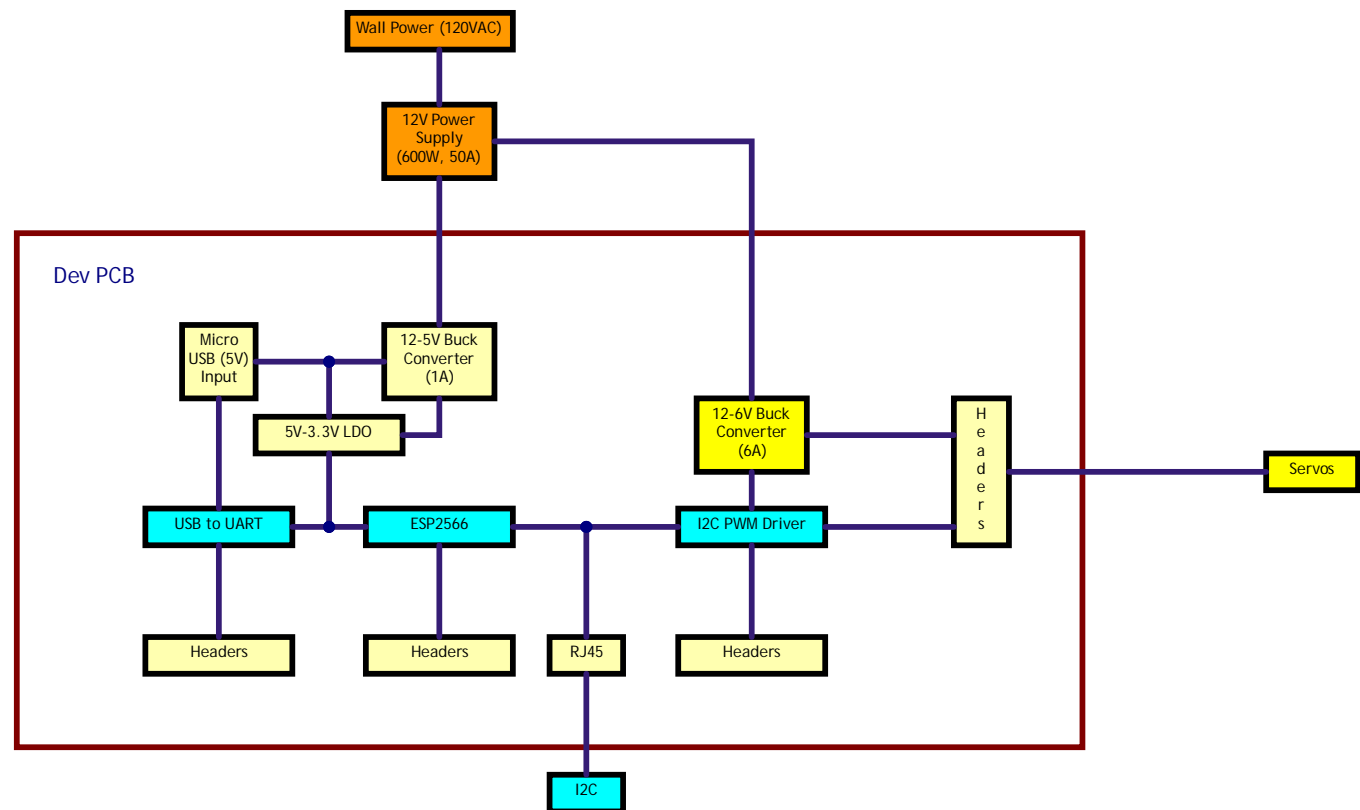


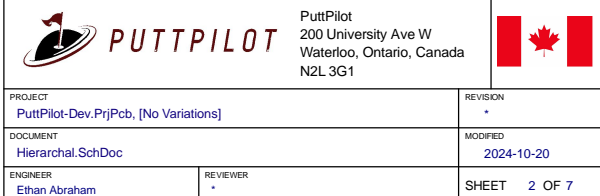
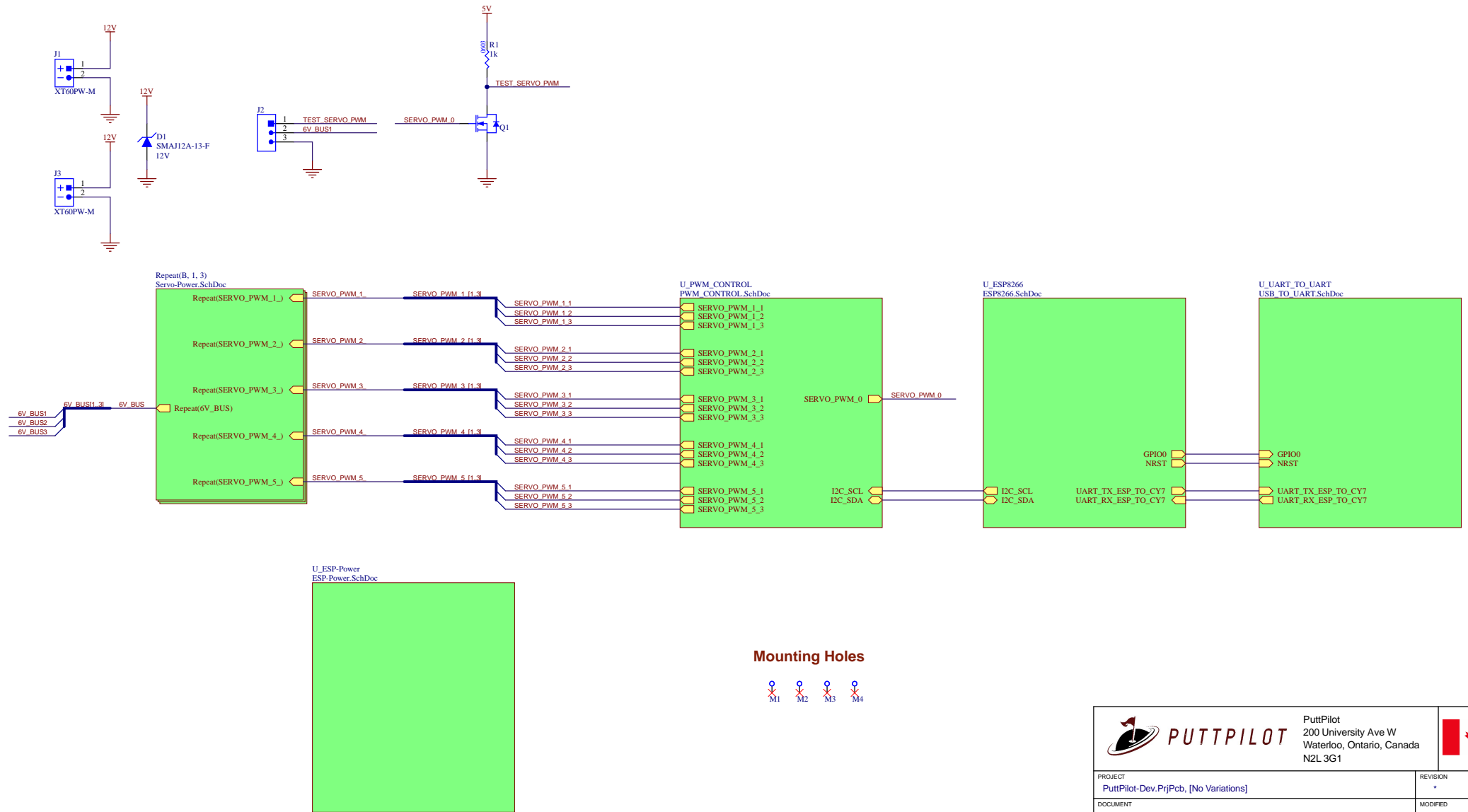


Block Diagram



 PUTTPILOT		PuttPilot 200 University Ave W Waterloo, Ontario, Canada N2L 3G1			
PROJECT PuttPilot-Dev.PrjPcb, [No Variations]				REVISION 1.0	
DOCUMENT Block-Diagram.SchDoc				MODIFIED 2024-11-04	
ENGINEER Ethan Abraham		REVIEWER *		SHEET 1 OF 7	

Hierarchal Power



A

B

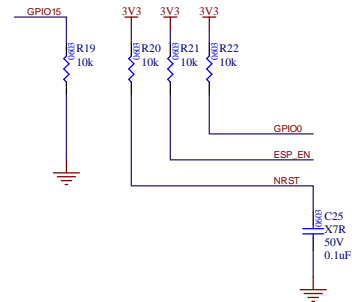
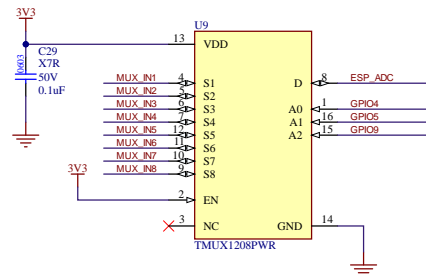
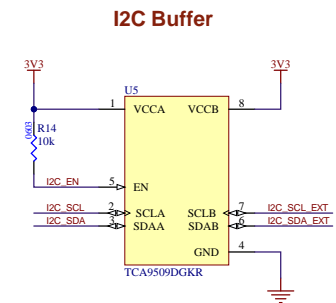
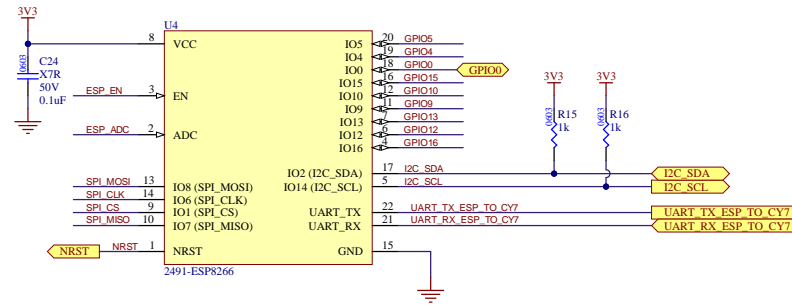
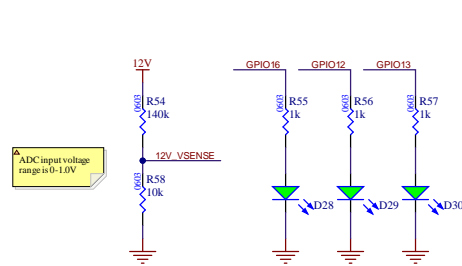


A

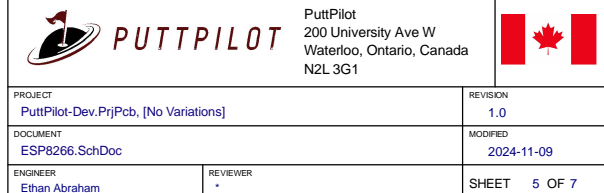
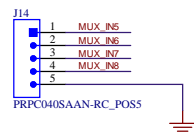
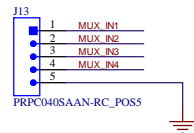
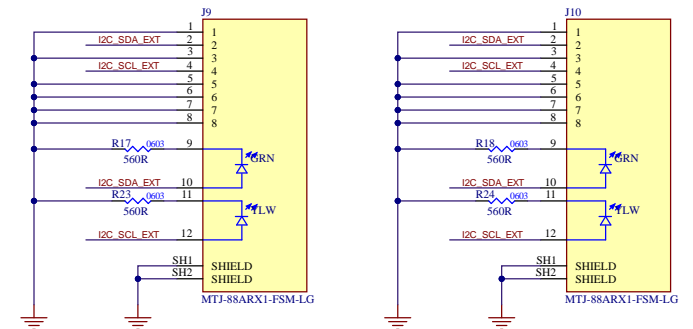
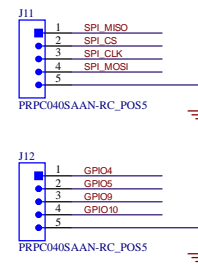
B



ESP8266

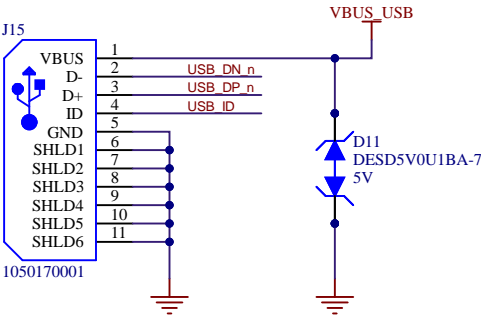


Headers

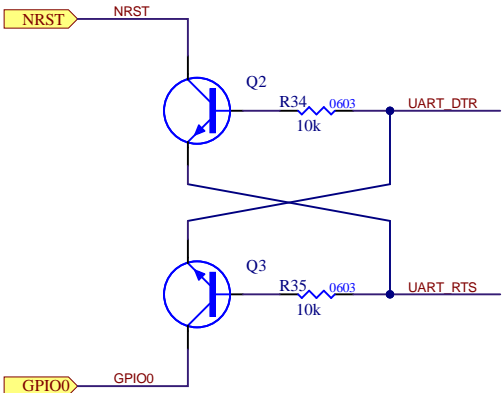


USB to UART

Micro USB B

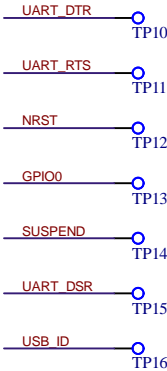


Auto Program Circuit

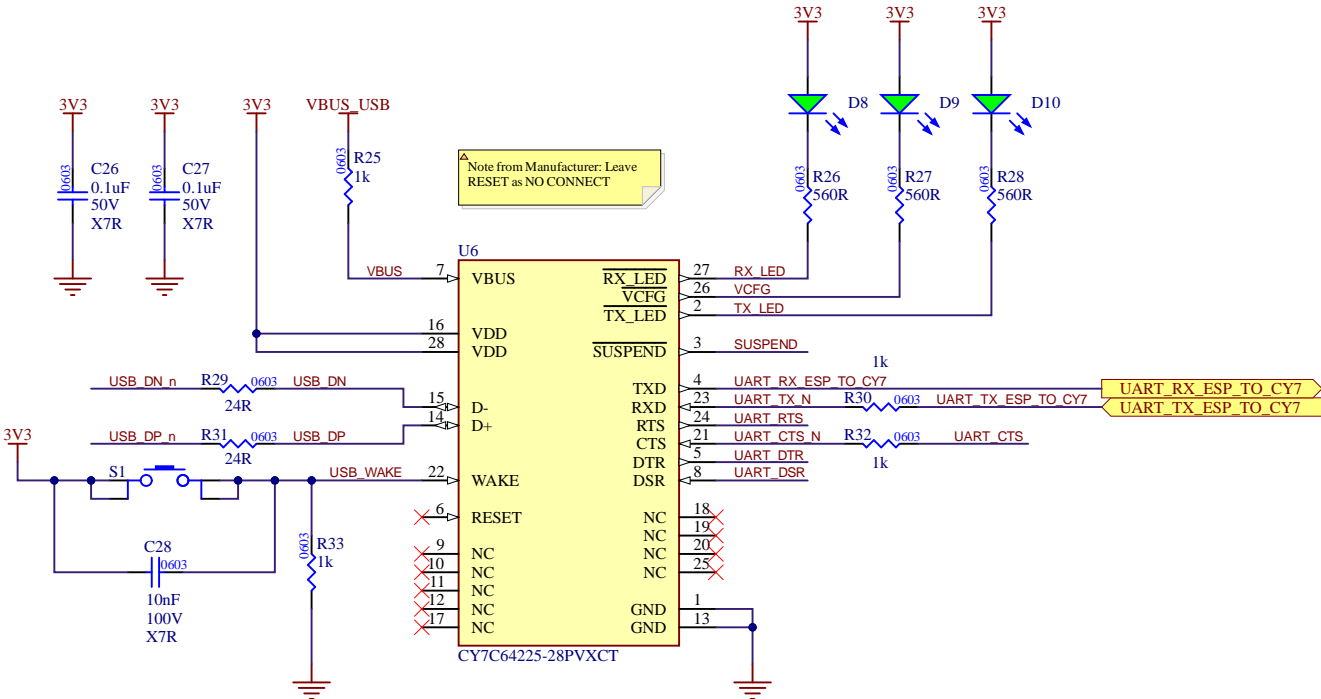


AUTO PROGRAM CIRCUIT			
DTR	RTS	RST	GPIO0
1	1	1	1
0	0	1	1
1	0	0	1
0	1	1	0

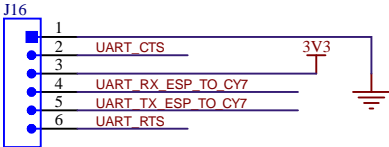
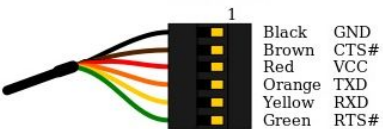
Testpoints



Note from Manufacturer: Leave RESET as NO CONNECT



FTDI Cable



PUTTPILOT

PuttPilot
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Waterloo, Ontario, Canada
N2L 3G1



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PuttPilot-Dev.PrjPcb, [No Variations]

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DOCUMENT
USB_TO_UART.SchDoc

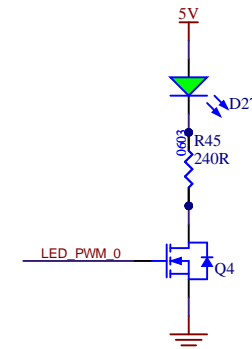
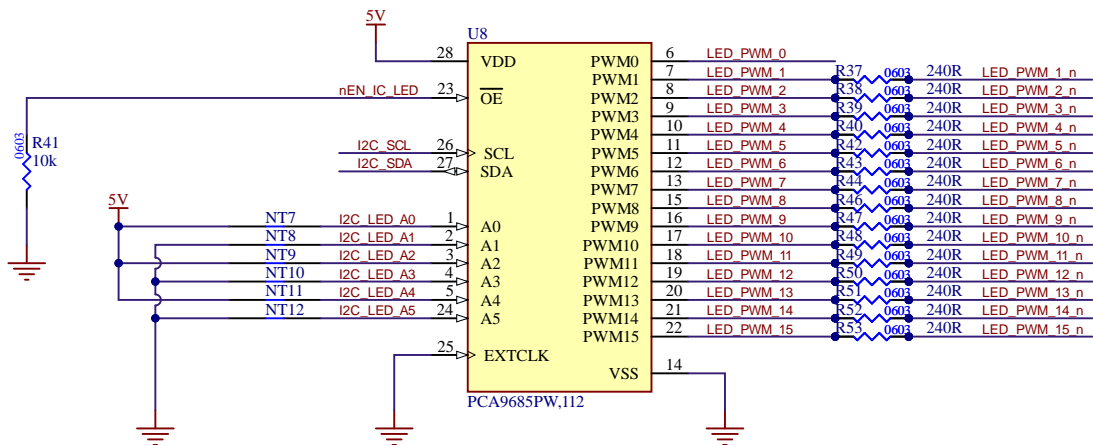
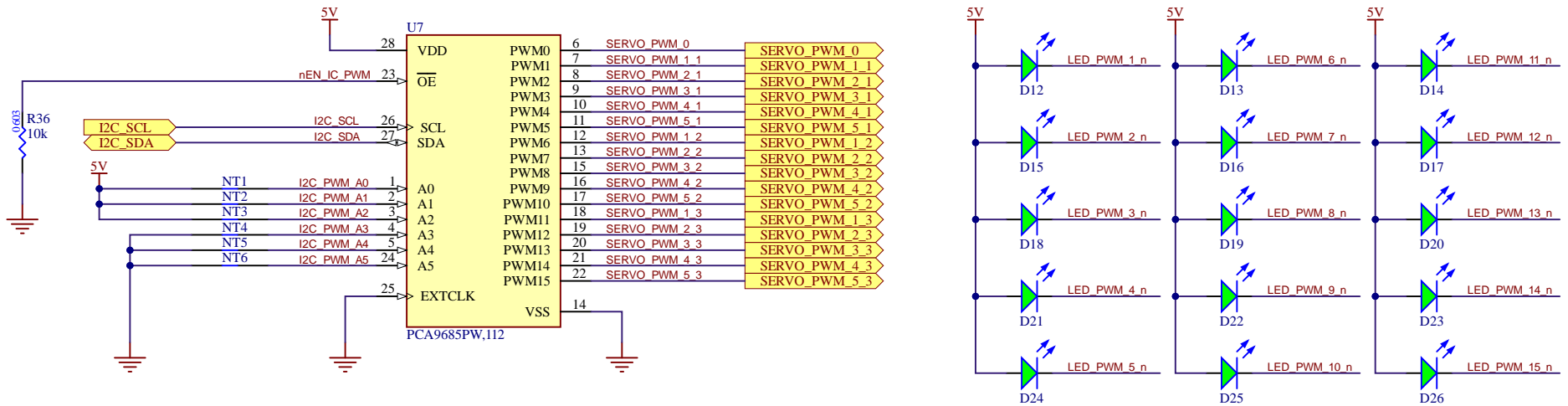
MODIFIED
2024-11-04

ENGINEER
Ethan Abraham

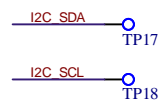
REVIEWER
*

SHEET 6 OF 7

PWM Control



Testpoints

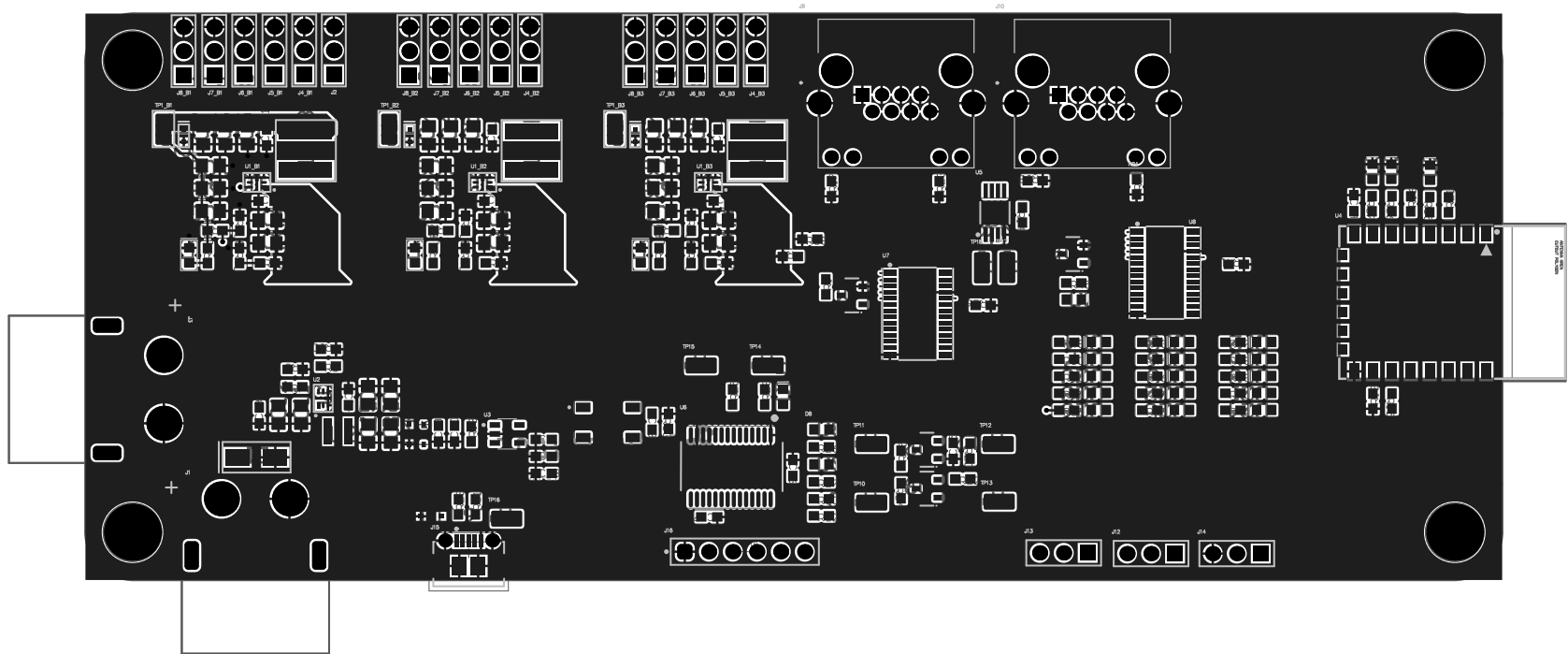


PUTTPILOT

PuttPilot
200 University Ave W
Waterloo, Ontario, Canada
N2L 3G1



PROJECT PuttPilot-Dev.PrjPcb, [No Variations]		REVISION 1.0
DOCUMENT PWM_CONTROL.SchDoc		MODIFIED 2024-10-20
ENGINEER Ethan Abraham	REVIEWER *	SHEET 7 OF 7



Comment	Description	Designator	Footprint	LibRef	Quantity
GRM18R61E226ME4K	CAP,0R22uF25VX5R0603	C1_B1, C1_B2, C1_B3, C2_B1, C2_B2, C2_B3, C3_B1, C3_B2, C3_B3, C3_B1, C3_B2, C3_B3, C3_B1, C3_B2, C3_B3, C10_B1, C10_B2, C10_B3, C11, C12, C15, C16, C17, C18	CAP_0605	GRM18R61E226ME4K	30
GC188R71H104KA12D	CAP,0R0.1uF50VX7R0603	C3_B1, C3_B2, C3_B3, C4_B1, C4_B2, C4_B3, C13, C14, C21, C24, C25, C26, C27, C29	CAP_0603	GC188R71H104KA12D	14
GR1188R71E10GKE13D	CAP,0R1uF25VX7R0603	C19, C20, C22, C23	CAP_0603	GR1188R71E10GKE13D	4
GDM188R72A103KA37D	CAP,0R0.01uF100VX7R	C28	CAP_0603	GDM188R72A103KA37D	1
5MAJ12A-13-F	TVS,DIODE12VMM	D1	5MAJ12A-13-F	5MAJ12A-13-F	1
ESD626.0T1G	TVS,DIODE6VMM	D2_B1, D2_B2, D2_B3	ESD626.0T1G	ESD626.0T1G	3
UTSF-C191K0KT	LED,GREEN 2V0603	D3_B1, D3_B2, D3_B3, D6, D7, D8, D8, D10, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30	LED_0603	UTSF-C191K0KT	27
DES05V0U1BA-7	TVS,DIODE5VMM	D4, D11	DES05V0U1BA-7	DES05V0U1BA-7	2
BAT60.FILM	DIODE,30VOTTKY10V3ASOD323	D5	BAT60.FILM	BAT60.FILM	1
XT60PVM	XT60PVMale	J1, J3	XT60PVM	XT60PVM	2
TSW-101-08-G-T-RA	CONN,HEADER,RA 3POS2.54MM	J2, J4_B1, J4_B2, J4_B3, J5_B1, J5_B2, J5_B3, J6_B1, J6_B2, J6_B3, J7_B1, J7_B2, J7_B3	HEADER_3POS_RA_2.54MM	TSW-101-08-G-T-RA	16
MTJ48ARX1-FSM4LG	RJ45 JACK,RA 9H4DED	J8, J10	MTJ48ARX1-FSM4LG	MTJ48ARX1-FSM4LG	2
PRFD0409AN+RC,POS	CONN,HEADER,VERT 8POS2.54MM	J11, J12, J13, J14	HEADER_8POS_2.54MM	PRFD0409AN+RC,POS	4
1050170001	CONN,USB,MICRO,B RA	J15	USB,MICRO,B	1050170001	1
PRFD0409AN+RC,POS	CONN,HEADER,VERT 8POS2.54MM	J16	HEADER_8POS_2.54MM	PRFD0409AN+RC,POS	1
SFF6000FA-5SRM	FIXED,IND,5.0UH10A 15.8mOhm	L1_B1, L1_B2, L1_B3	SFF6000FA-5SRM	SFF6000FA-5SRM	3
NR4301274R7MN	FIXED,IND,4.7UH 1.06A	L2	NR4301274R7MN	NR4301274R7MN	1
HOLE,M3	HOLE,M3	M1, M2, M3, M4	HOLE,M3	HOLE,M3	4
.NET_TIE	.GENERIC,NET,TIE	NT1, NT2, NT3, NT4, NT5, NT6, NT7, NT8, NT9, NT10, NT11, NT12	.NET_TIE	.NET_TIE	12
DMN6140L-7	MOSFET,N-CH,60V 1.6ASOT-23	Q1, Q4	SOT-23-3	DMN6140L-7	2
MMBT2222A-7-F	NPN,BJT,40V600mA SOT-23	Q2, Q3	SOT-23-3	MMBT2222A-7-F	2
RC0603FR-071KL	RES,1K OHM,0603	R1, R3_B1, R3_B2, R3_B3, R11, R12, R13, R15, R16, R25, R30, R32, R33, R55, R56, R57	RES_0603	RC0603FR-071KL	16
BRJ38F2002V	RES,20K OHM,0603	R2, R1, R2_B2, R2_B3, R7	RES_0603	BRJ38F2002V	4
RC0603FR-0789KL	RES,88.7K OHM,0603	R4, B1, R4_B2, R4_B3	RES_0603	RC0603FR-0789KL	3
RC0603FR-0710KL	RES,10K OHM,0603	R5, B1, R5_B2, R5_B3, R6, B1, R6_B2, R6_B3, R9, R10, R14, R19, R20, R21, R22, R34, R35, R36, R41, R59	RES_0603	RC0603FR-0710KL	18
RC0603FR-0773KL	RES,73.2K OHM,0603	R8	RES_0603	RC0603FR-0773KL	1
RC0603FR-07560RL	RES,560 OHM,0603	R17, R18, R23, R24, R26, R27, R28	RES_0603	RC0603FR-07560RL	7
RC0603FR-0724RL	RES,24 OHM,0603	R29, R31	RES_0603	RC0603FR-0724RL	2
RC0603FR-07240RL	RES,240 OHM,0603	R37, R38, R39, R40, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R59, B1, R59_B2, R59_B3, R60, B1, R60_B2, R60_B3, R61, B1, R61_B2, R61_B3, R62, B1, R62_B2, R62_B3, R63, B1, R63_B2, R63_B3	RES_0603	RC0603FR-07240RL	31
RC0603FR-07140KL	RES,140K OHM,0603	R54	RES_0603	RC0603FR-07140KL	1
PTS347SN383MTR2LFS	SM,TCH,TACTILE,SFST NO,0.05A 12V	S1	PTS347SN383MTR2LFS	PTS347SN383MTR2LFS	1
ROM,CTE	SMT Test Point	TP1, B1, TP1_B2, TP1_B3, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18	ROM,CTE	ROM,CTE	20
TP366624CDRLR	BLDK,3V-16V6ASOT-563	U1_B1, U1_B2, U1_B3, L2	TP366624CDRLR	TP366624CDRLR	4
TLV75533PDBVR	3V3(Fixed) LDO 500mA SOT25	U3	SOT-23-5	TLV75533PDBVR	1
2491-ESP8266	ESP8266 + Trace Antenna, 4MB Flash	U4	2491-ESP8266	2491-ESP8266	1
TC4660DQQR	2CC,BUFFER,IC	U5	TC4660DQQR	TC4660DQQR	1
CY7034225-28P/VCT	USB to UART,SCP,28 Pin	U6	CY7034225-28P/VCT	CY7034225-28P/VCT	1
PCA6865PW,112	2C,LED Driver	U7, U8	PCA6865PW,112	PCA6865PW,112	2
TMUX1208PVR	Single-Ended Multiplexer, 1 Func, 8 Channel, CMOS, PDS016	U9	TMUX1208	TMUX1208PVR	1