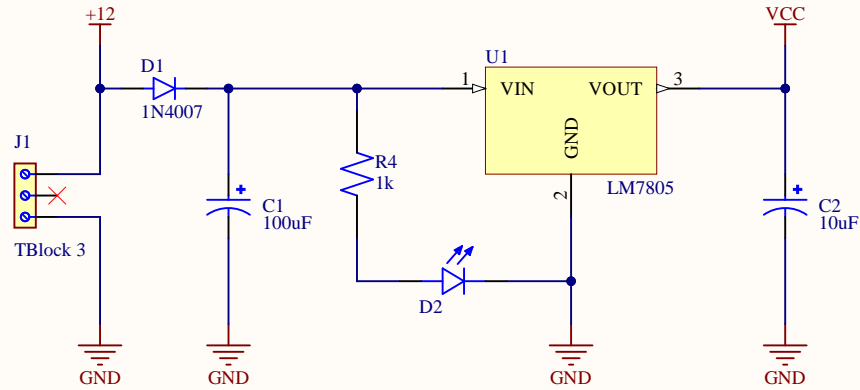
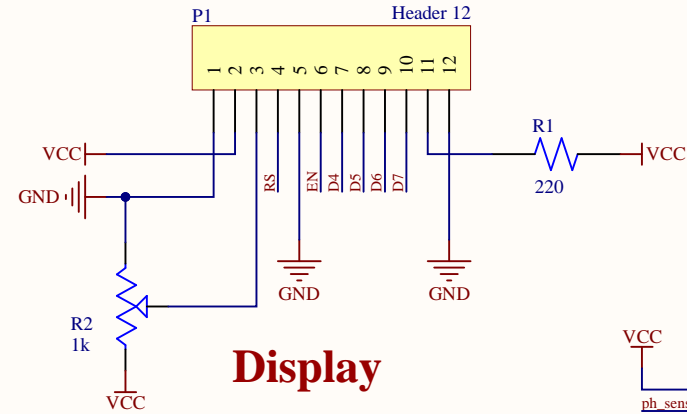


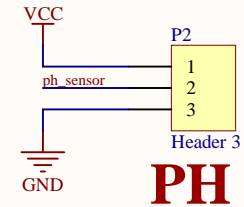
A



Power supply UNIT

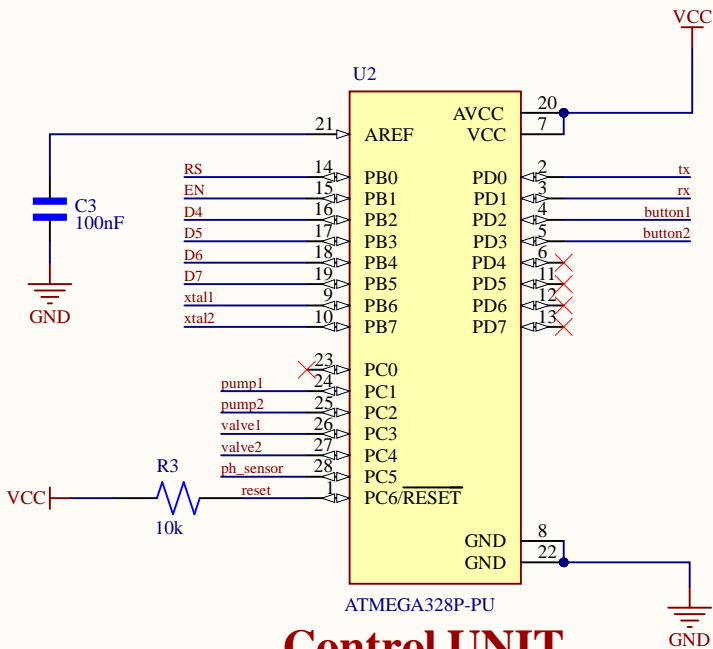


Display

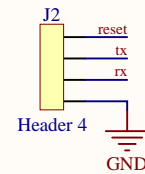


PH

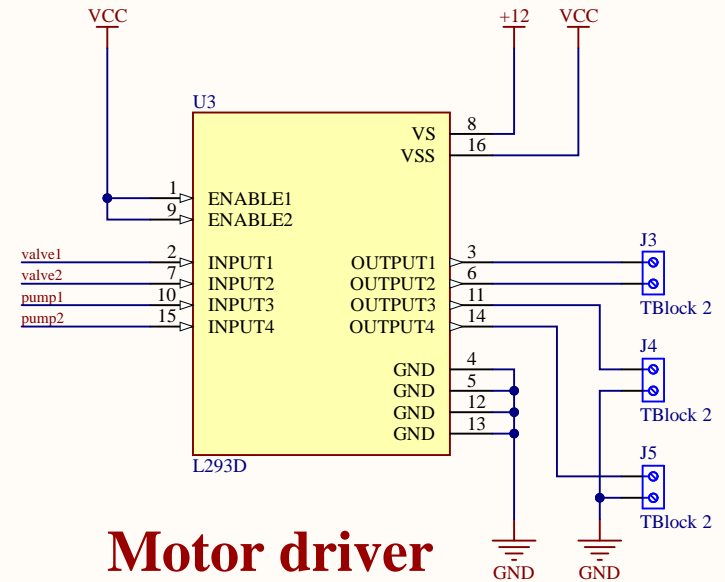
B



Control UNIT

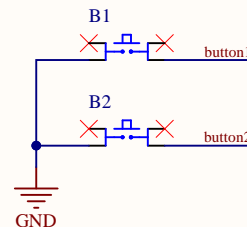
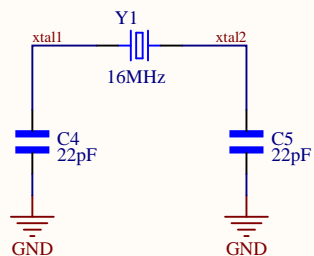


UART



Motor driver

D



Buttons

A

B

C

D

Title		
Size	Number	Revision
A		
Date:	5-22-2023	Sheet of
File:	V:\Office\...\schematic.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
Push button		B1, B2	SW_TS02-66-95-BK-260-LCR-D	Push button	2
100uF	FS-A	C1	CAPPRD500W50D500H1100	Electrolytic capacitor	1
10uF	FS-A	C2	CAPPRD500W50D500H1100	Electrolytic capacitor	1
100nF	2200 pF Â±10% 250V Ceramic Capacitor X7R Radial	C3	CAPRB500W50L450T300H550	Ceramic capacitor	1
22pF	2200 pF Â±10% 250V Ceramic Capacitor X7R Radial	C4, C5	CAPRB500W50L450T300H550	Ceramic capacitor	2
1N4007	Diode Switching 1KV 1A 2-Pin DO-41	D1	DIOAD1060W80L520D270	1N4007	1
L08R5000Q1	LED, Orange, Through Hole, T-1 3/4 (5mm), 30 mA, 2.1 V, 635 nm	D2	LEDRD254W57D500H1070	LED	1
TBlock 3	5.08 MM TERMINAL BLOCK;	J1	Terminal block - 3Pins	3Pins Terminal block	1
Header 4	4 Position Header Connector Through Hole	J2	SULLINS_PPTC041LFB N-RC	Female header - 4Pins	1
TBlock 2	2 Position Wire to Board Terminal Block Horizontal with Board 0.197 _5.00mm_ Through Hole	J3, J4, J5	691111710002	Terminal Block - 2Pins	3
Header 12	Header, 12-Pin	P1	HDR1X12	Header 12	1
Header 3	Header, 3-Pin	P2	HDR1X3	Header 3	1
220	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidertand Axial Metal Film	R1	RESAD1100W55L680D260	Resistor (0.25W)	1
1k	(3306F-1-105) 1 MOhms 0.2W, 1/5W PC Pins Through Hole Trimmer Potentiometer Cermet 1 Turn Top Adjustment	R2	TRIM_3306F-1-105	Potentiometer1	1
10k	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidertand Axial Metal Film	R3	RESAD1100W55L680D260	Resistor (0.25W)	1
1k	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidertand Axial Metal Film	R4	RESAD1100W55L680D260	Resistor (0.25W)	1
LM7805		U1	TO255P1020X450X1968-3	LM78__	1
ATMEGA328P-PU	ATmega Series 20 MHz 32 KB Flash 2 KB SRAM 8-Bit Microcontroller - DIP-28	U2	DIP794W46P254L2967H457Q28B	ATMEGA328P-PU	1
L293D	4-Channel Motor Driver 24V 16-Pin Power PDIP Tube	U3	DIP880W50P254L2000H510Q16	L293D	1
16MHz	CRYSTAL T/H	Y1	XTAL_ECS-160-20-4X	Crystal oscillator	1