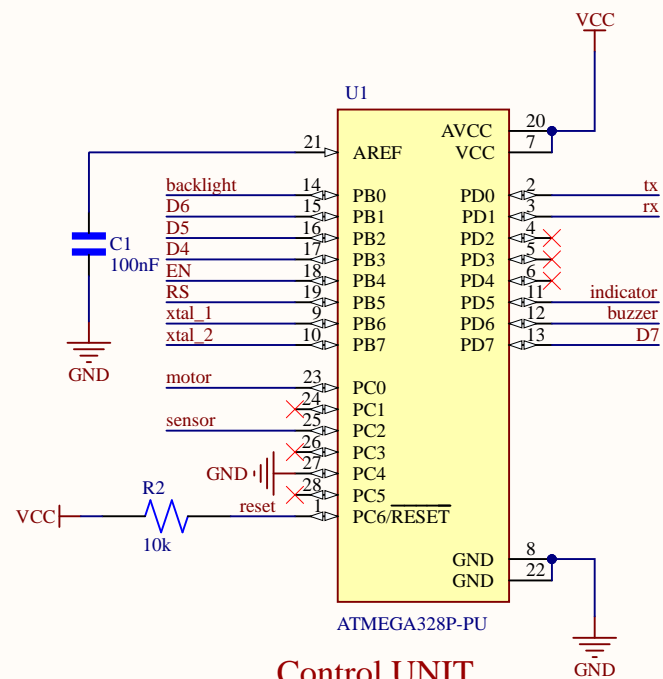
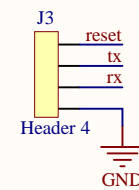
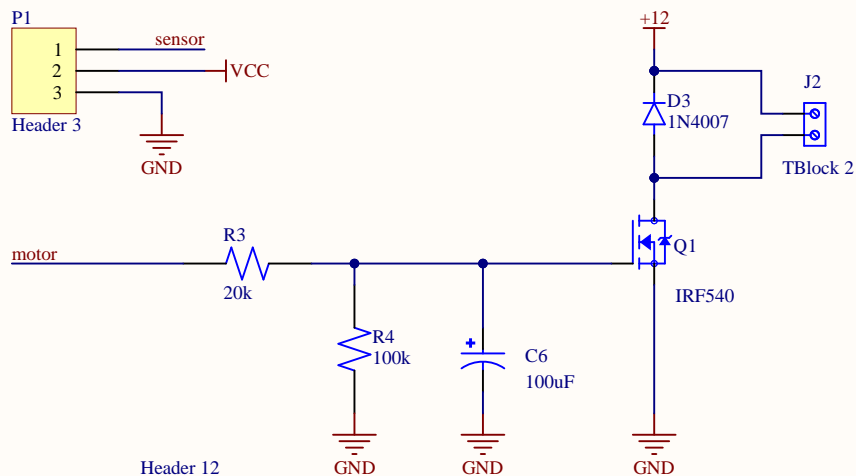


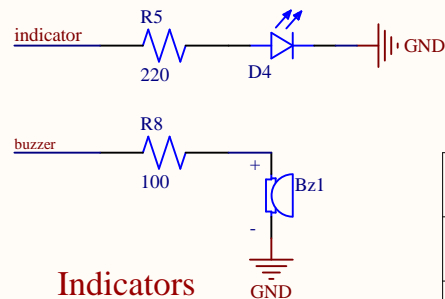
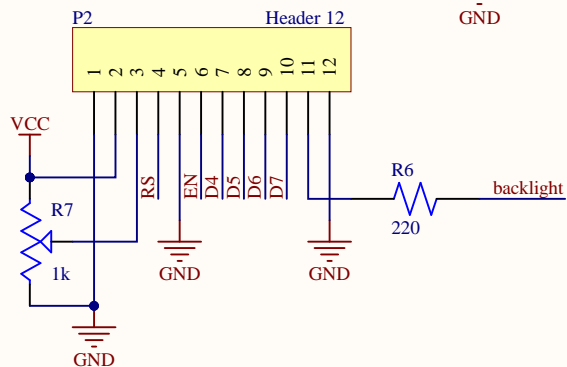
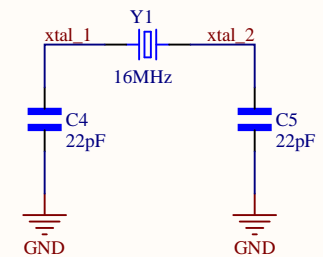
## Power supply UNIT



## Control UNIT

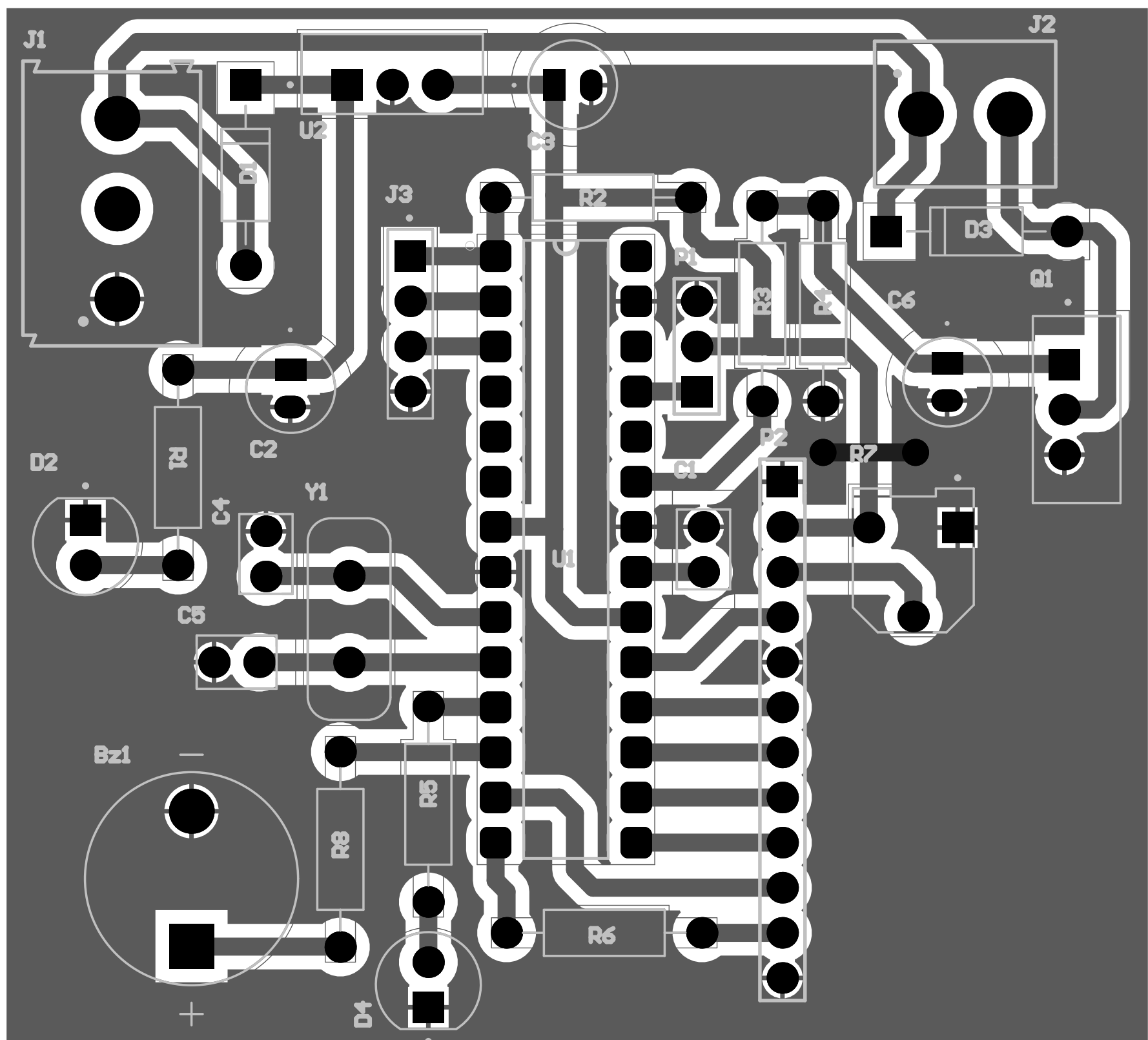


## UART



## Indicators

Title		
Size A	Number	Revision
Date:	5-23-2023	Sheet of
File:	V:\Office\...\schematic.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
AI-1223-TWT-12V-R	ELECTRO-MECHANICAL AUDIO INDICATOR	Bz1	XDCR_AI-1223-TWT-12V-R	Buzzer	1
100nF	2200 pF $\pm 10\%$ 250V Ceramic Capacitor X7R Radial	C1	CAPR8500W50L450T3 00H550	Ceramic capacitor	1
100uF	FS-A	C2, C6	CAPPRD500W50D500 H1100	Electrolytic capacitor	2
10uF	FS-A	C3	CAPPRD500W50D500 H1100	Electrolytic capacitor	1
22pF	2200 pF $\pm 10\%$ 250V Ceramic Capacitor X7R Radial	C4, C5	CAPR8500W50L450T3 00H550	Ceramic capacitor	2
1N4007	Diode Switching 1KV 1A 2-Pin DO-41	D1, D3	DIOAD1060W80L520D 270	1N4007	2
L08R5000Q1	LED, Orange, Through Hole, T-1 3/4 (5mm), 30 mA, 2.1 V, 635 nm	D2, D4	LEDRD254W57D500H1 070	LED	2
TBlock 3	5.08MM TERMINAL BLOCK	J1	Terminal block - 3Pins	3Pins Terminal block	1
TBlock 2	2 Position Wire to Board Terminal Block Horizontal with Board 0.197_5.00mm_ Through Hole	J2	691111710002	Terminal Block - 2Pins	1
Header 4	4 Position Header Connector Through Hole	J3	SULLINS_PPTC041LFB N-RC	Female header - 4Pins	1
Header 3	Header, 3-Pin	P1	HDR1X3	Header 3	1
Header 12	Header, 12-Pin	P2	HDR1X12	Header 12	1
IRF540	N-Channel 100V 22A (Tc) 85W (Tc) Through Hole TO-220AB	Q1	TO254P1052X465X198 9-3	IRF540	1
1k	(MFR-25F52-10K) 10,2kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R1	RESAD1100W55L680D 260	Resistor (0.25W)	1
10k	(MFR-25F52-10K) 10,2kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R2	RESAD1100W55L680D 260	Resistor (0.25W)	1
20k	(MFR-25F52-10K) 10,2kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R3	RESAD1100W55L680D 260	Resistor (0.25W)	1
100k	(MFR-25F52-10K) 10,2kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R4	RESAD1100W55L680D 260	Resistor (0.25W)	1
220	(MFR-25F52-10K) 10,2kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R5, R6	RESAD1100W55L680D 260	Resistor (0.25W)	2
1k	(3306F-1-105) 1 MOhms 0.2W, 1/5W PC Pins Through Hole Trimmer Potentiometer Cermet 1 Turn Top Adjustment	R7	TRIM_3306F-1-105	Potentiometer1	1
100	(MFR-25F52-10K) 10,2kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R8	RESAD1100W55L680D 260	Resistor (0.25W)	1
ATMEGA328P-PU	ATmega Series 20 MHz 32 KB Flash 2 KB SRAM 8-Bit Microcontroller - DIP-28	U1	DIP794W46P254L2967 H457Q28B	ATMEGA328P-PU	1
LM7805		U2	TO255P1020X450X196 8-3	LM78__	1
16MHz	CRYSTAL T/H	Y1	XTAL_ECS-160-20-4X	Crystal oscillator	1