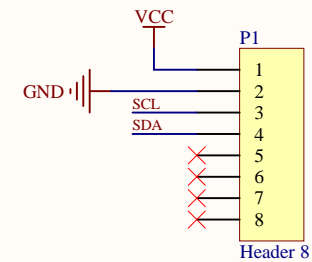
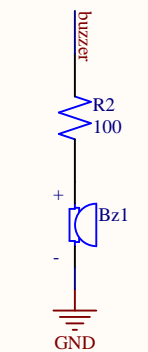


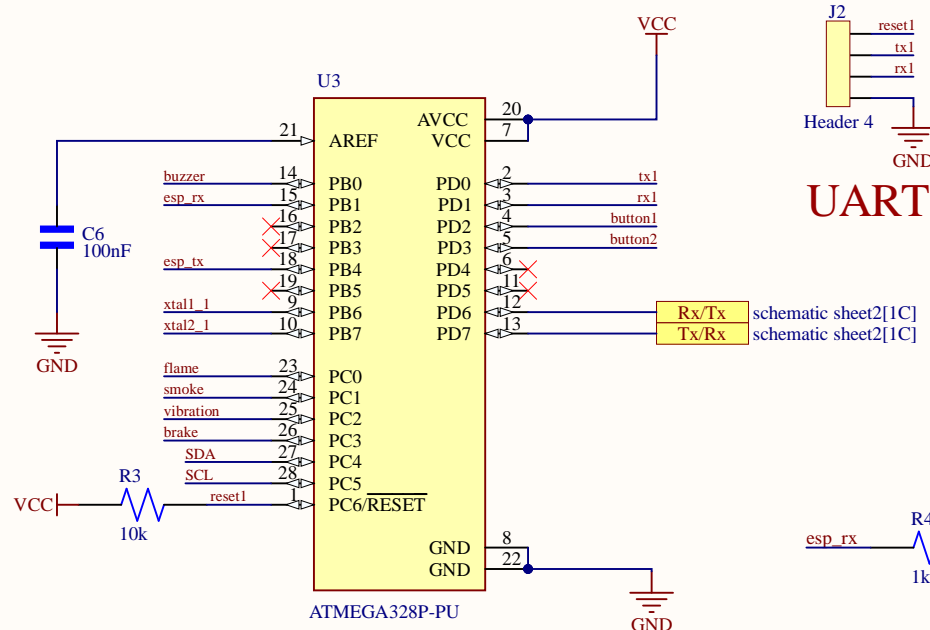
Power supply UNIT



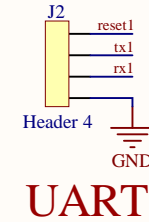
Connectors



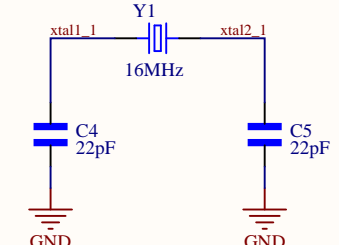
Buzzer



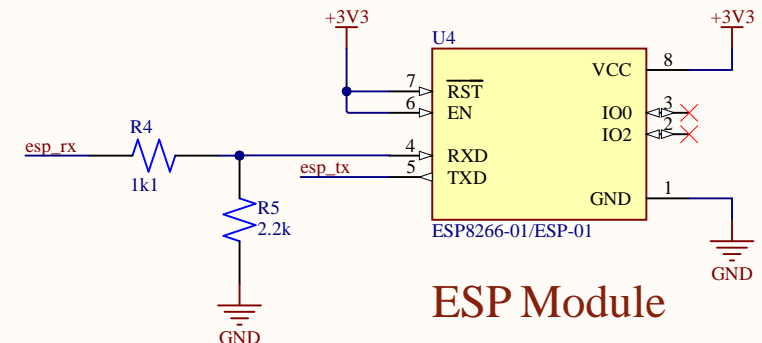
Control UNIT



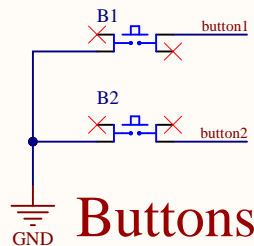
UART



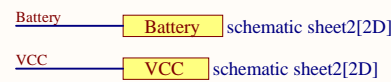
Oscillator



ESP Module



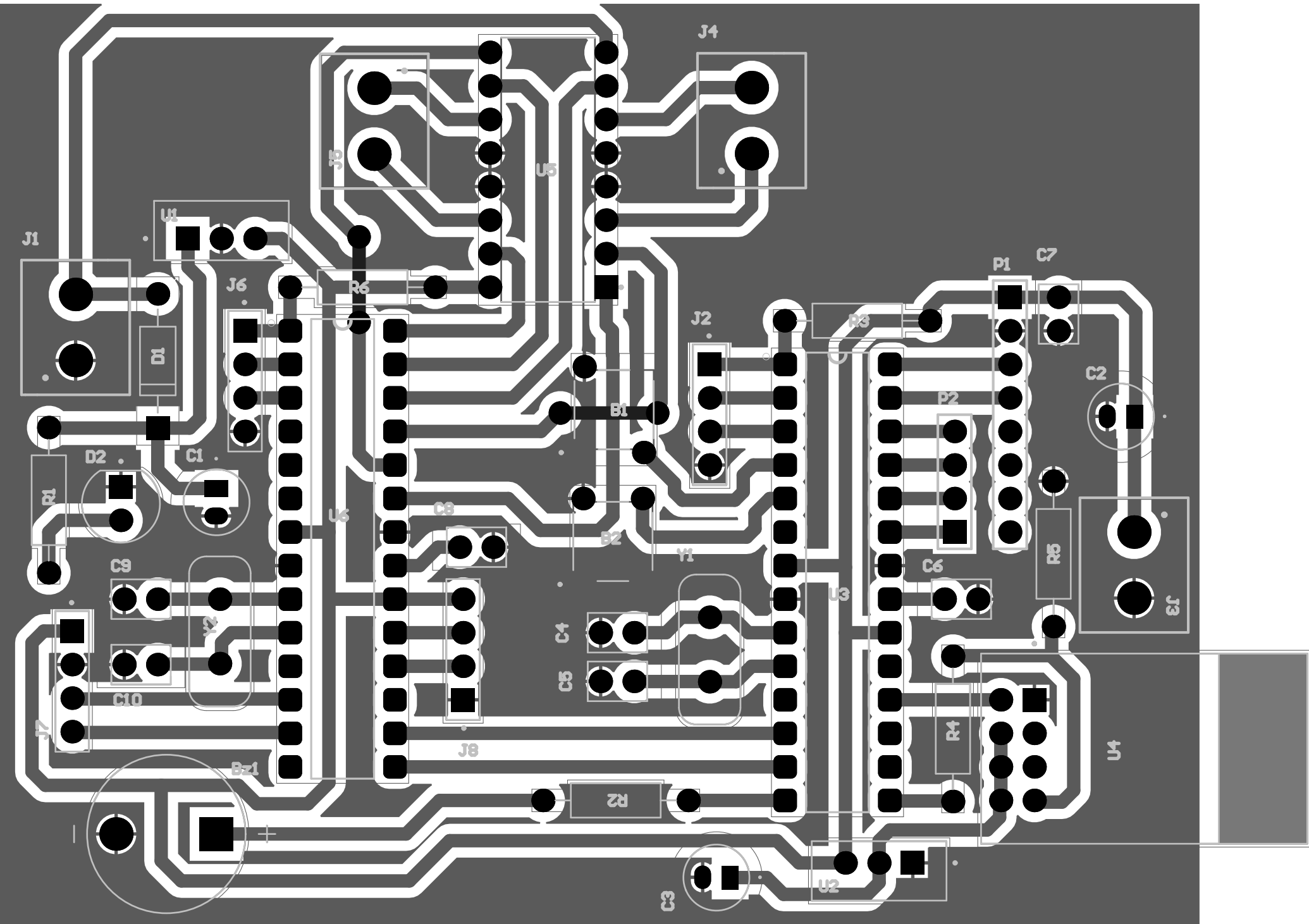
Buttons



# Main detection system

Title	Number	Revision
Size	A	01
Date:	6-12-2023	Sheet of
File:	V:\Office\...\schematic sheet1.SchDoc	Drawn By: FYP Prototype circuit
		Victor A. Magayane





Comment	Description	Designator	Footprint	LibRef	Quantity
Push button		B1, B2	SW_1302-66-95-BK-260-LCR-D	Push button	2
AI-1223-TWT-12V-R	ELECTRO-MECHANICAL AUDIO INDICATOR	Bz1	XDCR_AI-1223-TWT-12V-R	Buzzer	1
100uF	FS-A	C1	CAPPRD500W500500H1100	Electrolytic capacitor	1
10uF	FS-A	C2, C3	CAPPRD500W500500H1100	Electrolytic capacitor	2
22pF	2200 pF $\pm$ 10% 250V Ceramic Capacitor X7R Radial	C4, C5, C9, C10	CAPRB500W50L450T300H550	Ceramic capacitor	4
100nF	2200 pF $\pm$ 10% 250V Ceramic Capacitor X7R Radial	C6, C7, C8	CAPRB500W50L450T300H550	Ceramic capacitor	3
1N4007	Diode Switching 1KV 1A 2-Pin DO-41	D1	D1OAD1060W80L520D270	1N4007	1
L08R5000Q1	LED, Orange, Through Hole, T-1 3/4 (5mm), 30 mA, 2.1 V, 635 nm	D2	LEDRD254W57D500H1070	LED	1
TBlock 2	2 Position Wire to Board Terminal Block Horizontal with Board 0.197 _5.00mm_ Through Hole	J1, J3	691111710002	Terminal Block - 2Pins	2
Header 4	4 Position Header Connector Through Hole	J2, J6, J7, J8	SULLINS_PPTC041LFB-N-RC	Female header - 4Pins	4
691111710002	2 Position Wire to Board Terminal Block Horizontal with Board 0.197 _5.00mm_ Through Hole	J4, J5	691111710002	Terminal Block - 2Pins	2
Header 8	Header, 8-Pin	P1	HDR1X8	Header 8	1
Header 4	Header, 4-Pin	P2	HDR1X4	Header 4	1
1k	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R1	RESAD1100W55L680D260	Resistor (0.25W)	1
100	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R2	RESAD1100W55L680D260	Resistor (0.25W)	1
10k	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R3, R6	RESAD1100W55L680D260	Resistor (0.25W)	2
1k1	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R4	RESAD1100W55L680D260	Resistor (0.25W)	1
2.2k	(MFR-25FBF52-10K) 10,2 kOhm bei 1% 0,25W, 1/4W Durchbohrlochwidens tand Axial Metal Film	R5	RESAD1100W55L680D260	Resistor (0.25W)	1
LM7805		U1	TO255P1020X450X196 8-3	LM78_	1
LD1117V33		U2	TO255P1020X450X196 8-3	LD1117V33	1
ATMEGA328P-PU	ATmega Series 20 MHz 32 KB Flash 2 KB SRAM 8-Bit Microcontroller - DIP-28	U3, U6	DIP794W46P254L2967H457Q28B	ATMEGA328P-PU	2
ESP8266-01/ESP-01	MakerFocus 4pcs ESP8266 ESP-01 Serial Wireless WiFi Transceiver Receiver Module 1MB SPI Flash DC3.0-3.6V Internet of Things WiFi Module Board Compatible with Arduino	U4	XCVR_ESP8266-01/ESP-01	ESP8266-01 Module	1
L293D	4-Channel Motor Driver 24V 16-Pin Power PDIP Tube	U5	DIP880W50P254L2000H5100T16	L293D	1
16MHz	CRYSTAL 17H	Y1, Y2	XTAL_ECS-160-20-4X	Crystal oscillator	2