

A

A

B

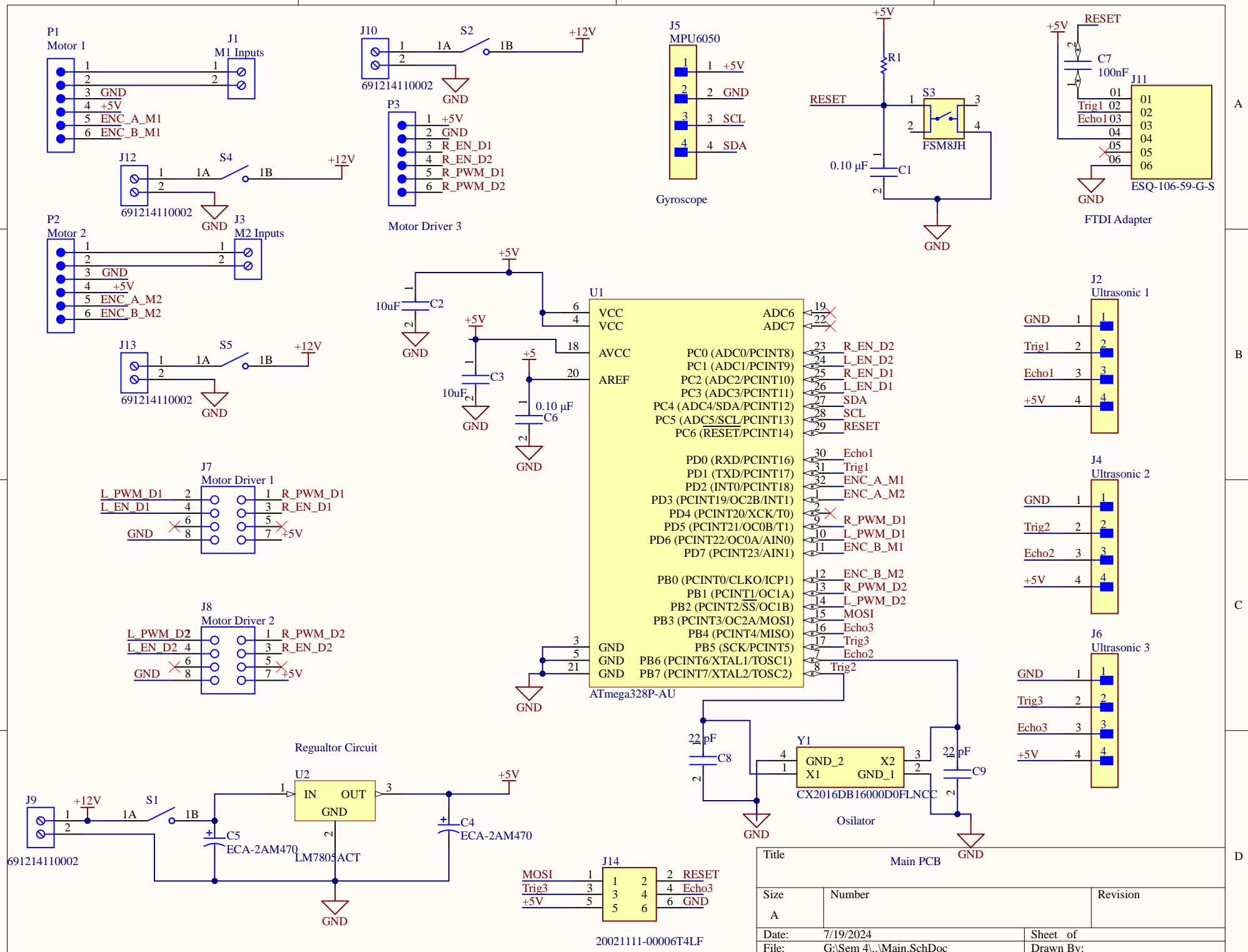
B

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C

D

D



Title		
Main PCB		
Size	Number	Revision
A		
Date:	7/19/2024	Sheet of
File:	G:\Sem 4\...\Main.SchDoc	Drawn By:

20021111-00006T4LF

Comment	Description	Designator	Footprint	LibRef	Quantity
C1206C104K2RACTU	CAP CER0.1UF200V 10%XR1206	C1, C6	FP-C1206C-EB-MFG	CMP-1037-04222-2	2
C3216X5R1H106K160 AB	Multilayer Ceramic Capacitors 10uF±10% 50VX5RSMD 1206	C2, C3	FP-C3216-160-0_2- IPC_A	CMP-2000-06045-2	2
ECA-2AM470	Aluminum Electrolytic Capacitor, 47 uF, +/- 20%, 100 V, -40 to 85 degC, 2-Pin THD, RoHS, Bulk	C4, C5	CAPPR65-350- 1150X800X1250	CMP-1665-00041-1	2
C320C104M5U5TA	0.1uFA±20%50V Ceramic Capacitor Z5U Radial	C7	C320C	C320C104M5U5TA	1
C1206C220J5GACTU	1206 22pF Ceramic Multilayer Capacitor; 50VDC; 125degC; C0G Dielec; +/-5% SMD	C8, C9	FP-C1206C-EB-MFG	CMP-1037-00978-2	2
691214110002		J1, J3, J9, J10, J12, J13	691214110002	CMP-1502-02464-2	6
Ultrasonic 1	CONN HEADER VERT 4POS2.5MM	J2	FP-B4B-XH-A_LF_SN- MFG	CMP-17439-000250-1	1
Ultrasonic 2	CONN HEADER VERT 4POS2.5MM	J4	FP-B4B-XH-A_LF_SN- MFG	CMP-17439-000250-1	1
MPU6050	M20-9990445 Conn Unshrouded Header HDR 4 POS2.54mm Solder ST Thru-Hole Bulk/ Loose	J5	FP-M20-9990445- MFG	CMP-00671-05399696- 1	1
Ultrasonic 3	CONN HEADER VERT 4POS2.5MM	J6	FP-B4B-XH-A_LF_SN- MFG	CMP-17439-000250-1	1
Motor Driver 1	SQ Post Socket, Through-hole, Vertical, -55 to 125 degC, 2.54mm Pitch, 8-Pin, Female, RoHS	J7	SMTC-SSW-104-02-X- D	CMP-1023-00343-1	1
Motor Driver 2	SQ Post Socket, Through-hole, Vertical, -55 to 125 degC, 2.54mm Pitch, 8-Pin, Female, RoHS	J8	SMTC-SSW-104-02-X- D	CMP-1023-00343-1	1
ESQ-106-59-G-S		J11	SAMTEC_ESQ-106-59- G-S	ESQ-106-59-G-S	1
20021111-00006T4LF	Connector	J14	20021111100006T4LF	20021111-00006T4LF	1
Motor 1		P1	61300611121	CMP-1502-01070-3	1
Motor 2		P2	61300611121	CMP-1502-01070-3	1
Motor Driver 3		P3	61300611121	CMP-1502-01070-3	1
CRCW120610K0FKEA HP		R1	RESC3116X65X50NL2 0T20	CMP-2003-04883-1	1
DS01-254-L-01BE	1 Position, Through Hole, 2.54 mm Pitch, Raised Slide Actuator, Flat Bottom, Long Pin, DIP Switch	S1, S2, S4, S5	SW_DS01-254-L-01BE	DS01-254-L-01BE	4
FSM8JH	Tactile Switch SPST- NO Top Actuated Through Hole	S3	SW_FSM8JH	FSM8JH	1
ATmega328P-AU	8-bit AVR Microcontroller, 32KB Flash, 1KB EEPROM, 2KB SRAM, 32-pin TQFP, Industrial Grade (-40°C to 85°C)	U1	32A_M	CMP-0095-00269-2	1
LM7805ACT	Positive Voltage Regulator, 5 V, 1 A, 0 to 125 degC, 3-Pin TO- 220, RoHS, Tube	U2	FAIR-TO-220-3	CMP-2000-04937-1	1
CX2016DB16000D0FL NCC	Crystal or Oscillator	Y1	CX2016DB16000D0FL NCC	CX2016DB16000D0FL NCC	1