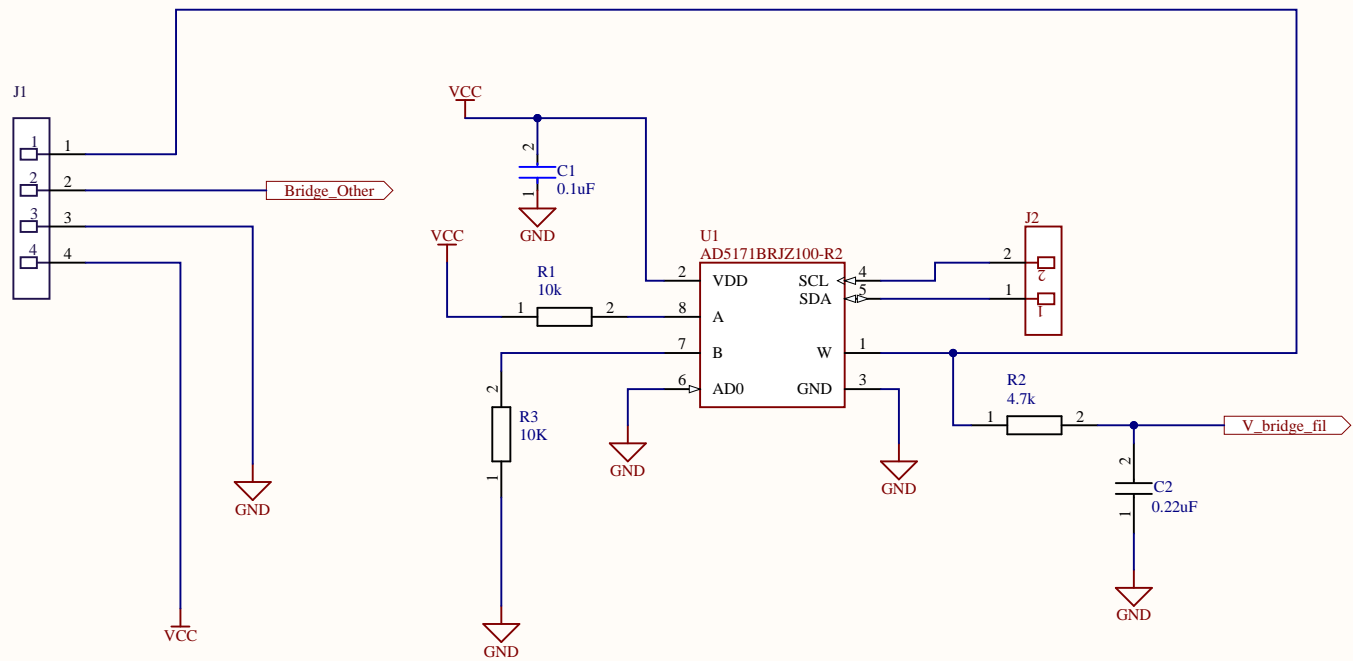
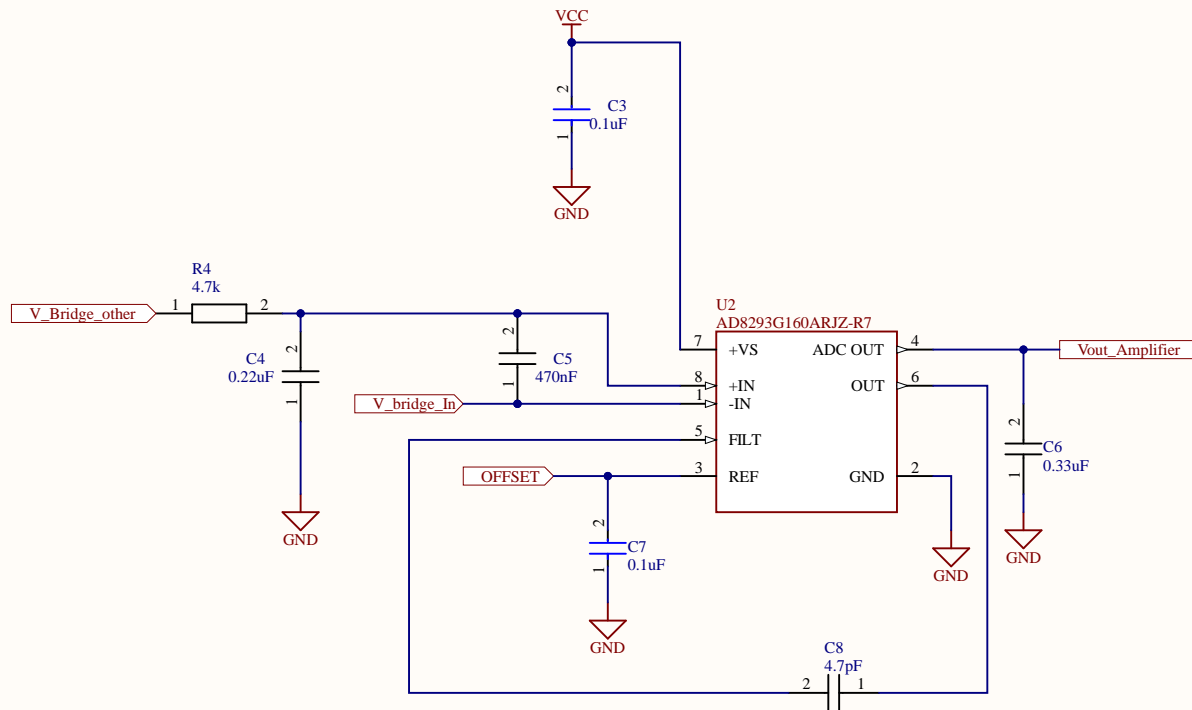


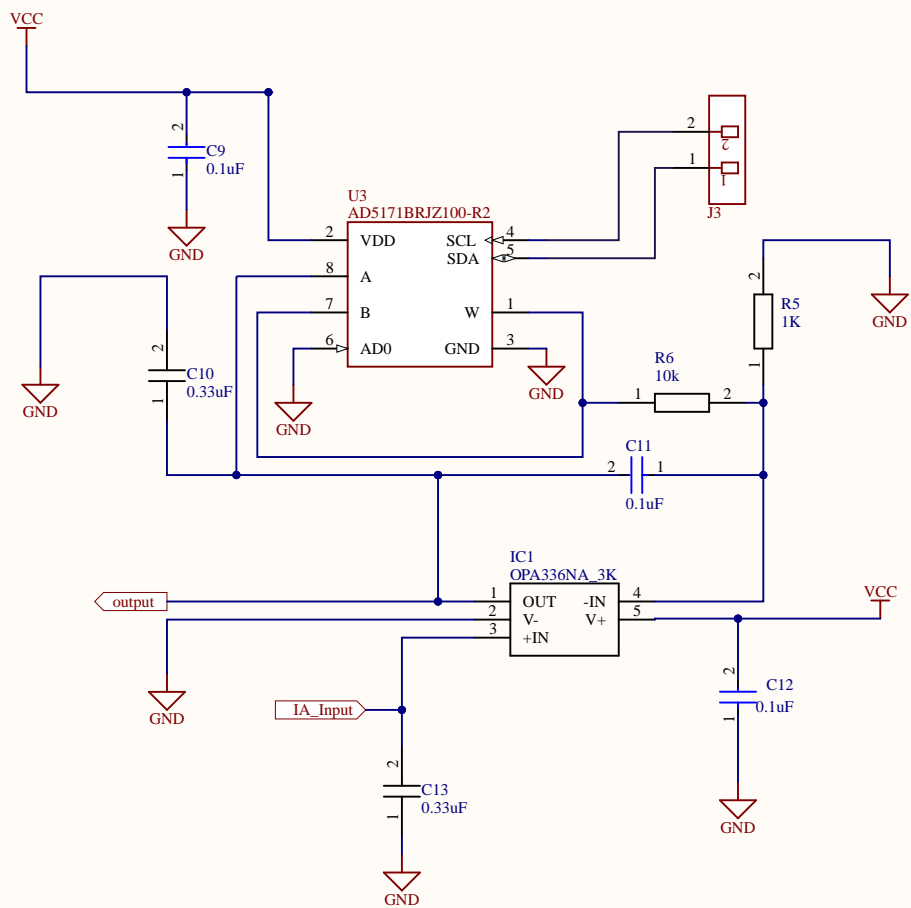
Title Torque Sensor		
Size A4	Number 1	Revision
Date: 5/07/2024	Sheet 1 of 7	
File: C:\Users\...\Main PCB.SchDoc	Drawn By: Mavishan and Nilupulee	



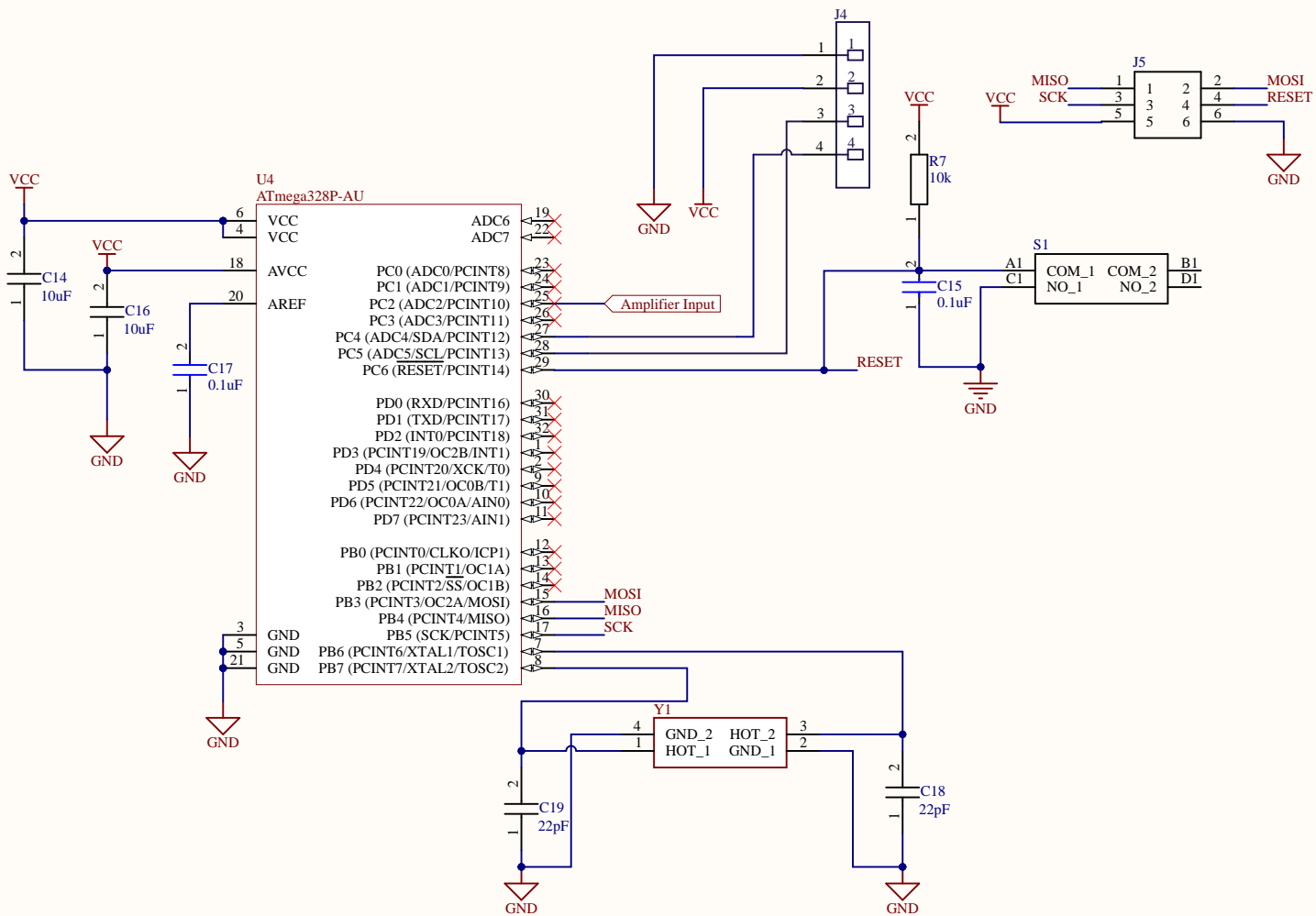
Title Balancing bridge		
Size A4	Number 2	Revision
Date:	5/07/2024	Sheet 2 of 7
File:	C:\Users\...\balancingBridge.SchDoc	Drawn By: Mavishan and Nilupulee



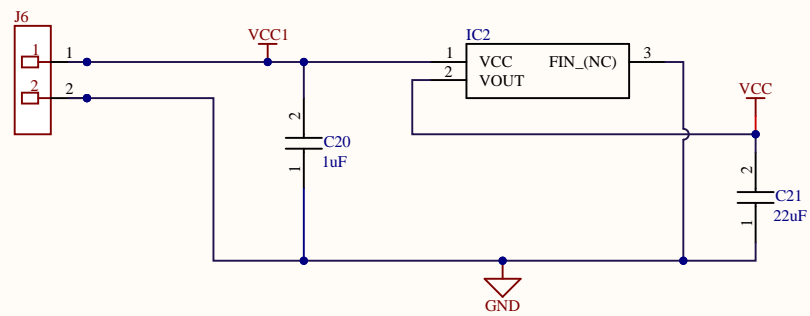
Title Instrumentation Amplifier		
Size A4	Number 3	Revision
Date:	5/07/2024	Sheet 3 of 7
File:	C:\Users\...\Instrumentation amplifier.Sch Drawn By: Mavishan and Nilupulee	



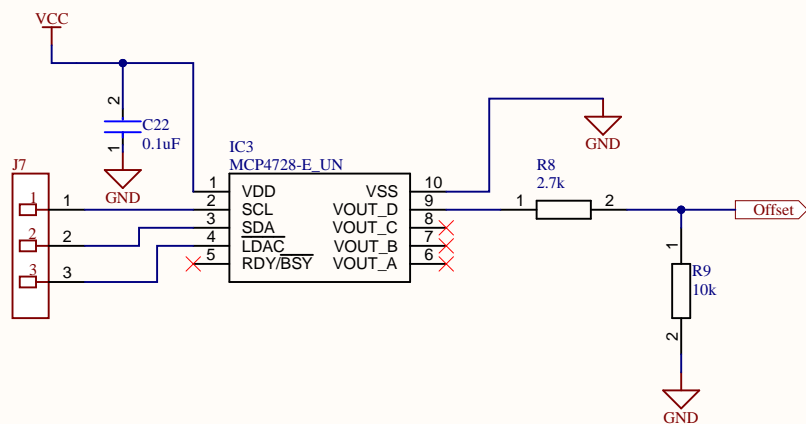
Title Amplifier		
Size A4	Number 4	Revision
Date: 5/07/2024	Sheet 4 of 7	
File: C:\Users\...\Amplifier.SchDoc	Drawn By: Mavishan and Nilupulee	



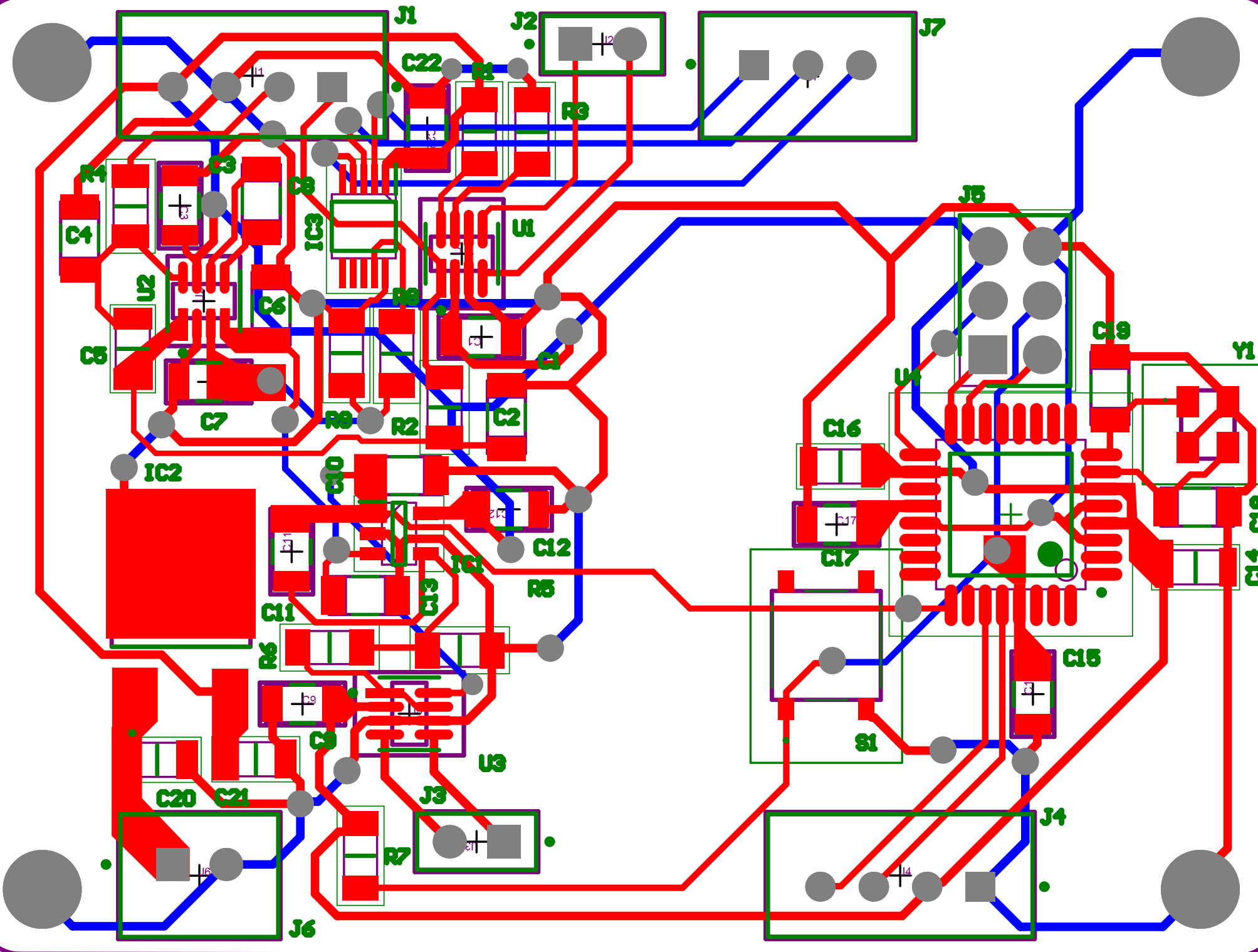
Title Microcontroller		
Size A4	Number 5	Revision
Date: 5/07/2024	Sheet 5 of 7	
File: C:\Users\...\microController.SchDoc	Drawn By: Mavishan and Nilupulee	



Title Power		
Size A4	Number 6	Revision
Date:	5/07/2024	Sheet 6 of 7
File:	C:\Users\...\Power.SchDoc	Drawn By: Mavishan and Nilupulee



Title		Offset	
Size	Number	Revision	
A4	6		
Date:	5/07/2024	Sheet 7 of 7	
File:	C:\Users\...\Offset.SchDoc	Drawn By: Mavishan and Nilupulee	



Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF	CAP CER0.1UF 25V C0G/NP0 1206	C1, C3, C7, C9, C11, C12, C15, C17, C22	FP-C1206C-EB-MFG	CMP-1037-04186-2	9
12063C224JAT2A	Capacitor	C2, C4	CAPC3216X94N	12063C224JAT2A	2
12065C474JAT2A	Capacitor	C5	CAPC3216X152N	12065C474JAT2A	1
12063C334MAT2A	Capacitor	C6, C10, C13	CAPC3216X127N	12063C334MAT2A	3
12063A4R7DAT2A	Capacitor	C8	CAPC3216X94N	12063A4R7DAT2A	1
CGA5L1X7R1C106K16 0AC	Capacitor	C14, C16	CAPC3216X190N	CGA5L1X7R1C106K16 0AC	2
12063A220JAT2A	Capacitor	C18, C19	CAPC3216X94N	12063A220JAT2A	2
12063C105MAT2A	Capacitor	C20	CAPC3216X178N	12063C105MAT2A	1
12063D226MAT2A	Capacitor	C21	CAPC3216X229N	12063D226MAT2A	1
OPA336NA_3K	Integrated Circuit	IC1	SOT95P280X145-5N	OPA336NA_3K	1
BD450M5FP-CE2	Integrated Circuit	IC2	ROHM_TO-252-3	BD450M5FP-CE2	1
MCP4728-E_UN	Integrated Circuit	IC3	SOP50P490X110-10N	MCP4728-E_UN	1
B4B-XH-A(LF)(SN)	CONN HEADER VERT 4POS2.5MM	J1, J4	FP-B4B-XH-A_LF_SN- MFG	CMP-17439-000250-1	2
M20-9990246	CONN HEADER VERT 2POS2.54MM	J2, J3	FP-M20-9990246-MFG	CMP-15831-000009-1	2
87914-0606	Connector	J5	HDRV6W69P254_2X3- 762X498X859P	87914-0606	1
B2B-XH-A(LF)(SN)	CONN HEADER VERT 2POS2.5MM	J6	FP-B2B-XH-A_LF_SN- MFG	CMP-2000-05888-3	1
B3B-XH-A(LF)(SN)	CONN HEADER VERT 3POS2.5MM	J7	FP-B3B-XH-A_LF_SN- MFG	CMP-17439-000014-3	1
ERA-8AEB103V	Resistor	R1, R3, R6, R7, R9	RESC3216X70N	ERA-8AEB103V	5
CHP1206AFX- 4701ELF	Resistor	R2, R4	RESC3116X65N	CHP1206AFX- 4701ELF	2
ERA8AEB102V	Resistor	R5	RESC3216X70N	ERA8AEB102V	1
ERA-8AEB272V	Resistor	R8	RESC3216X70N	ERA-8AEB272V	1
TS-1187A-B-A-B	Switch	S1	TS1187ABAB	TS-1187A-B-A-B	1
AD5171BRJZ100-R2	AD5171BRJZ100-R2 Digital Potentiometer 64POS100kOhm Single Automotive 8- Pin SOT-23 T/R	U1, U3	FP-RJ-8-IPC_A	CMP-00026-00446399- 1	2
AD8293G160ARJZ-R7	IC INST AMP 1 CIRCUIT SOT23-8	U2	FP-RJ-8-IPC_B	CMP-09116-000116-1	1
ATmega328P-AU	8-bit AVR Microcontroller, 32kB Flash, 1kB EEPROM, 2kB SRAM, 32-pin TQFP, Industrial Grade (-40°C to 85°C)	U4	32A_M	CMP-0095-00269-2	1
CX3225SA40000D0PT WCC	Crystal or Oscillator	Y1	CX3225SA40000D0PT WCC	CX3225SA40000D0PT WCC	1