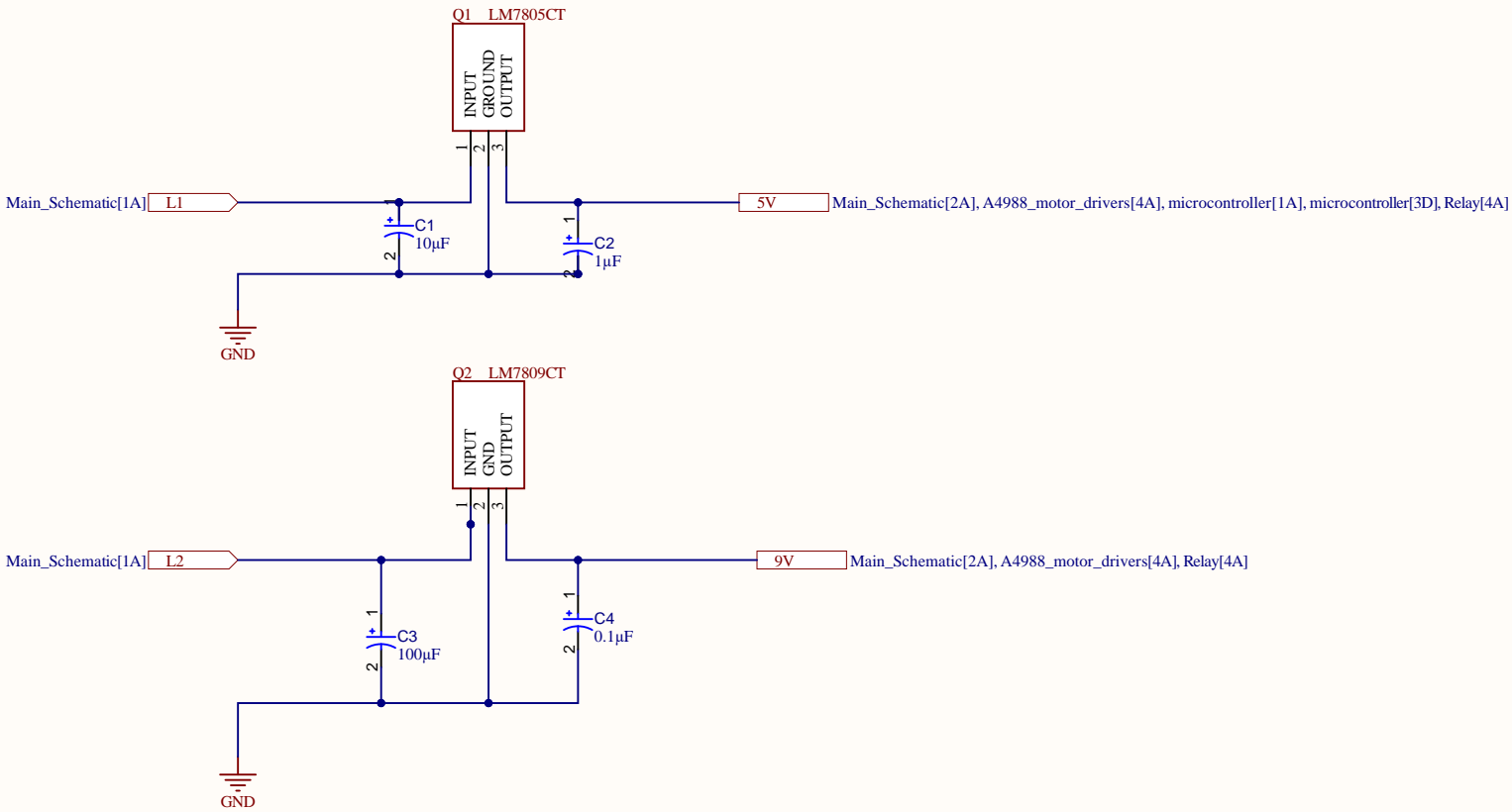
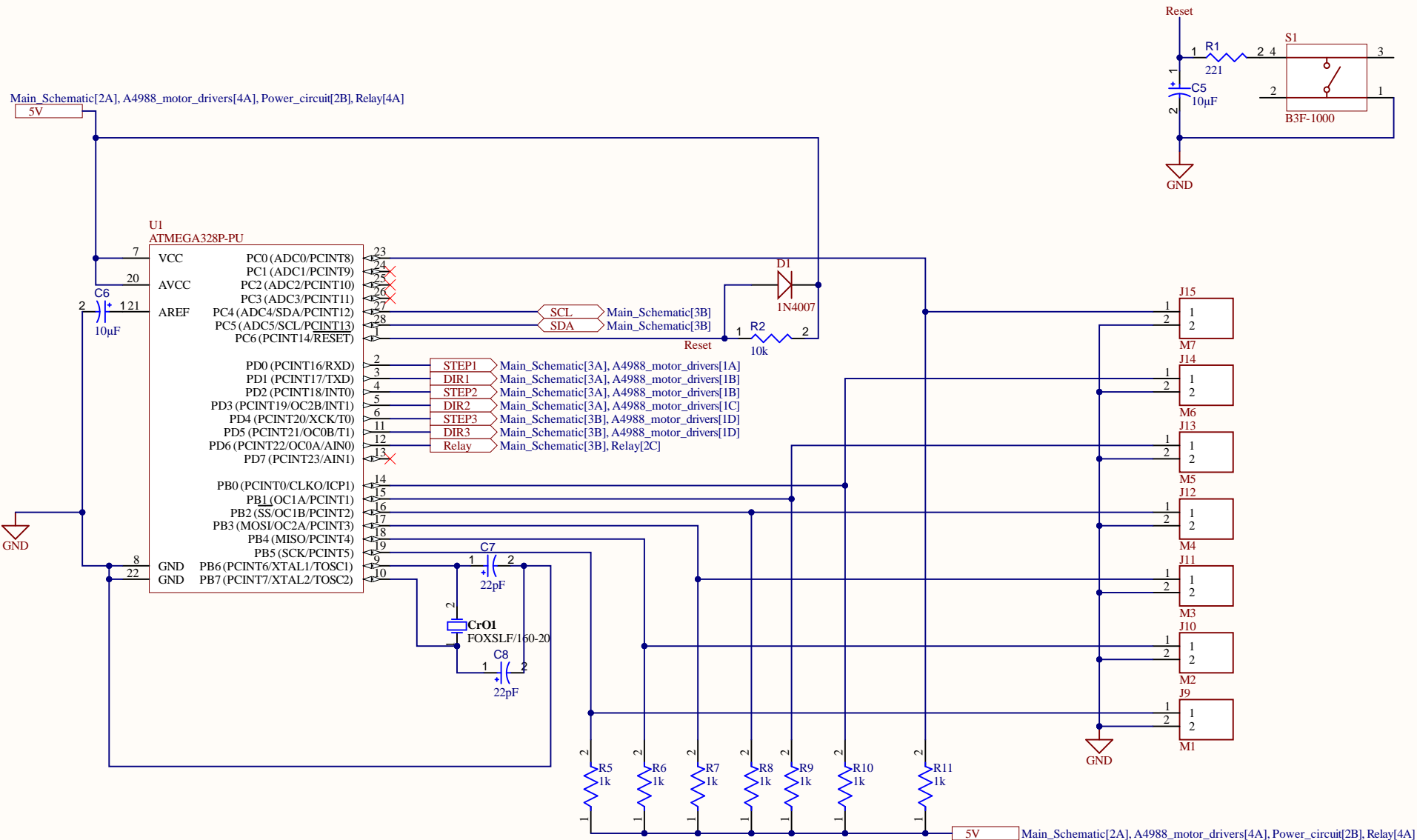


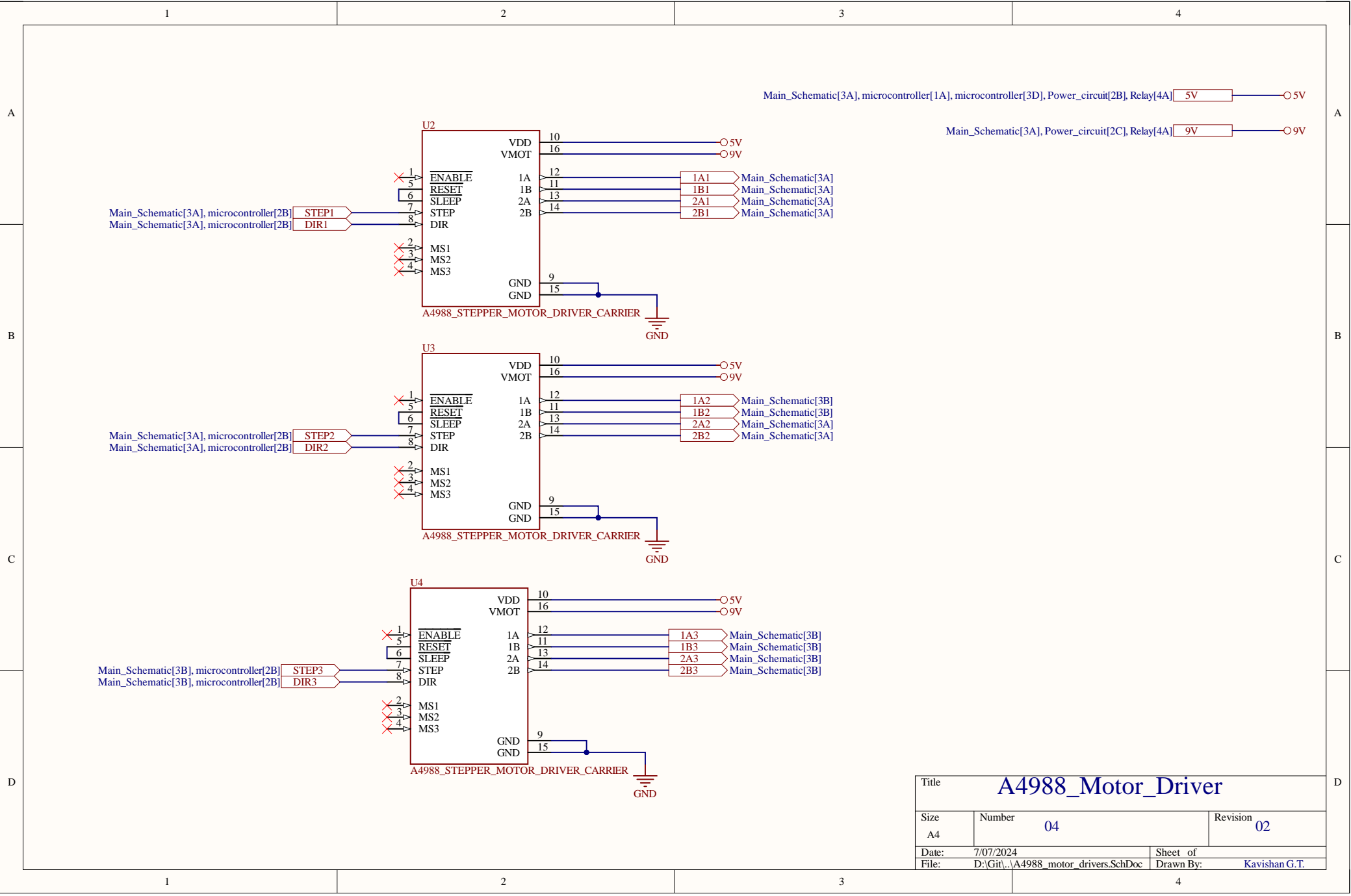
Title		Robot_Arm_PCB	
Size A4	Number 01		Revision 02
Date:	7/07/2024	Sheet of	
File:	D:\Git\...\Main_Schematic.SchDoc	Drawn By:	Kavishan G.T.



Title			Power_Circuit		
Size	Number		Revision		
A4	02		02		
Date:	7/07/2024		Sheet of		
File:	D:\Git\...\Power_circuit.SchDoc		Drawn By: Kavishan G.T.		



Title		Microcontroller	
Size A4	Number 03	Revision 02	
Date:	7/07/2024	Sheet of	
File:	D:\Git\...\microcontroller.SchDoc	Drawn By:	Kavishan G.T.



1

2

3

4

A

A

B

B

C

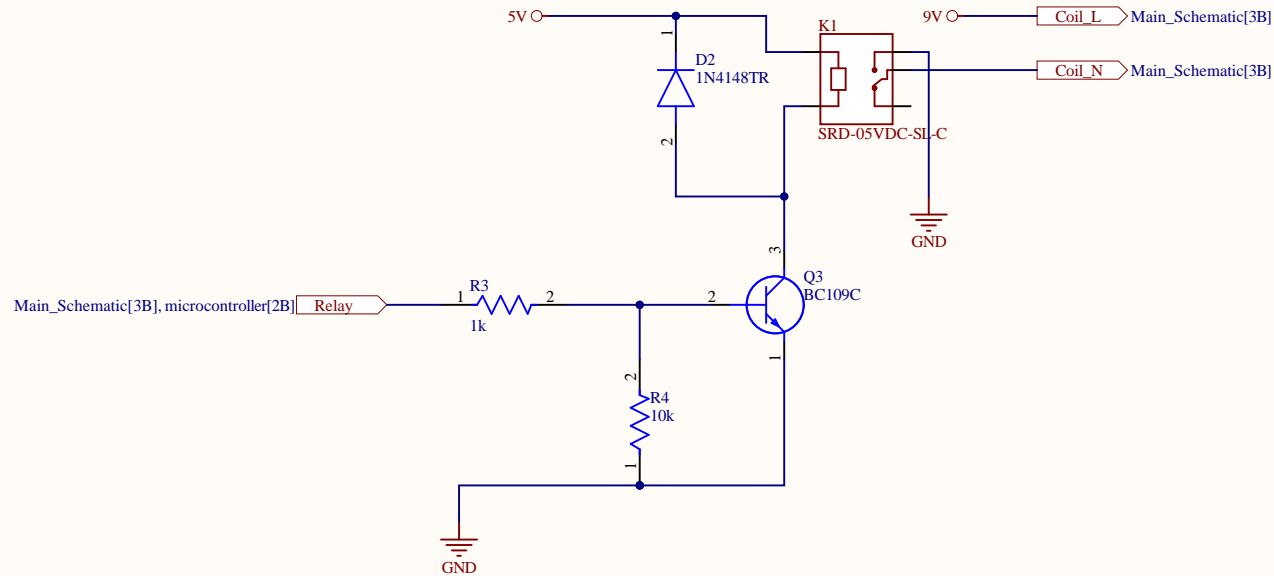
C

D

D

Main_Schematic[3B], A4988_motor_drivers[4A], microcontroller[1A], microcontroller[3D], Power_circuit[2B] 5V

Main_Schematic[3B], A4988_motor_drivers[4A], Power_circuit[2C] 9V



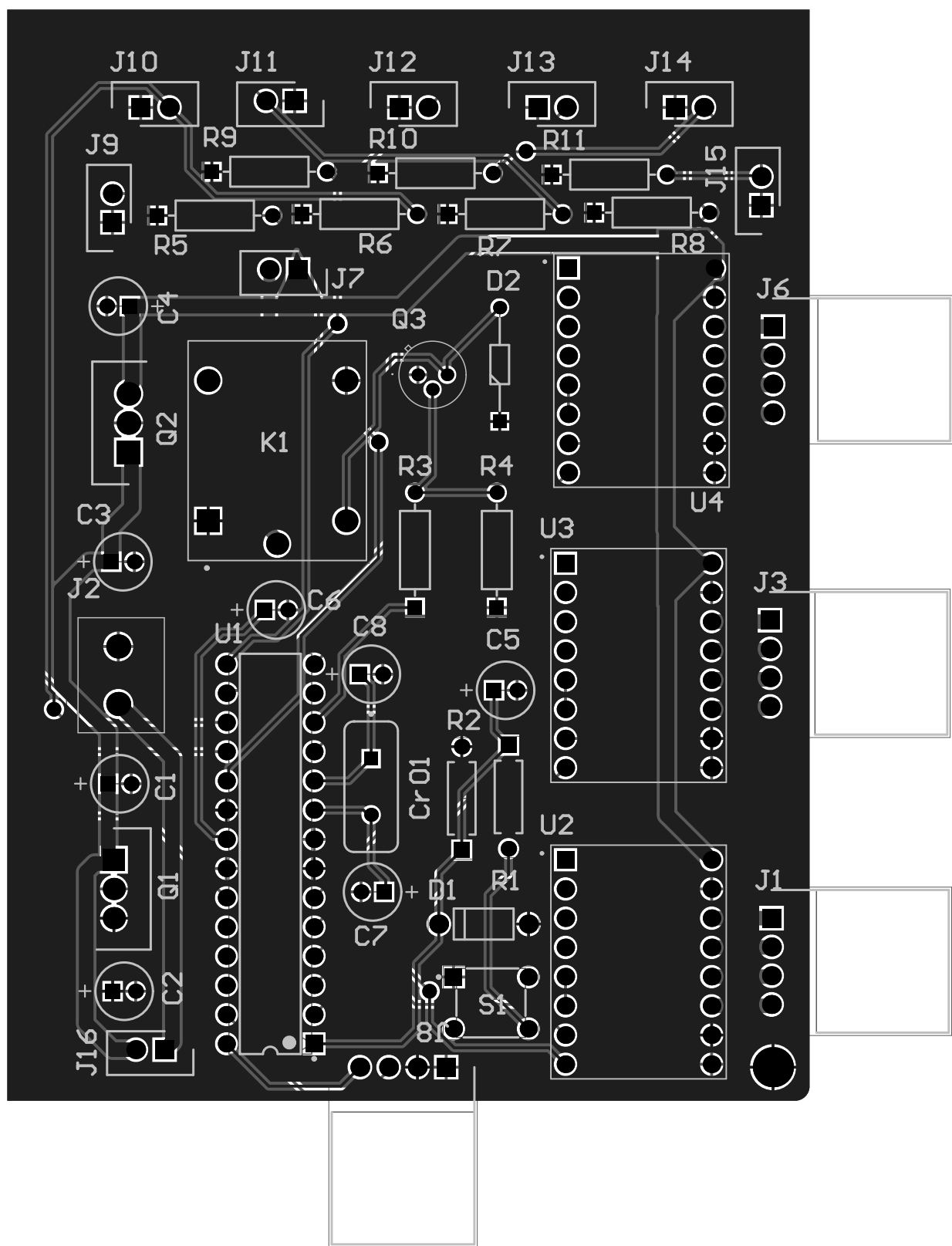
Title			Relay_circuit		
Size	Number			Revision	
A4	05			02	
Date:	7/07/2024			Sheet of	
File:	D:\Git\...\Relay.SchDoc			Drawn By:	Kavishan G.T.

1

2

3

4



Comment	Description	Designator	Footprint	LibRef	Quantity
ECA1HM100	Aluminum Electrolytic Capacitor, 10 uF, +/- 20%, 50 V, -40 to 85 degC, 2-Pin THD, RoHS, Bulk	C1, C2, C3, C4, C5, C6, C7, C8	CAPPR55-200-1100X500X1200	OMP-001-00025-7	8
FOXSLF/160-20	Resistance Weld Thru-Hole Crystal, 16 MHz, 20 to 70 degC, 2-Pin THD, RoHS, Bulk	QO1	FOX-FOXSLF/160-20	OMP-1749-00003-1	1
1N4007	General Purpose Rectifier, 1.1 V, 1.0 A, -55 to 175 degC, 2-Pin DO-41, RoHS, Tape and Reel	D1	FAIR-DO-41-2	OMP-004-00007-2	1
1N4148TR	Diode	D2	DIOD990W55L340D162	1N4148TR	1
Motor_1	Connector	J1	SHDRRA4W64P0X250_1X4_1240X1150X700P	SHB-XH-A_LF_SN_	1
KF301-2P	Connector	J2	KF3012P	KF301-2P	1
Motor_2	Connector	J3	SHDRRA4W64P0X250_1X4_1240X1150X700P	SHB-XH-A_LF_SN_	1
Motor_3	Connector	J3, J8	SHDRRA4W64P0X250_1X4_1240X1150X700P	SHB-XH-A_LF_SN_	2
coil	Connector	J7	SHDR2W64P0X250_1X2_750X380X600P	B2B-EH-A	1
M1	Connector	J9	SHDR2W64P0X250_1X2_750X380X600P	B2B-EH-A	1
M2	Connector	J10	SHDR2W64P0X250_1X2_750X380X600P	B2B-EH-A	1
M3	Connector	J11	SHDR2W64P0X250_1X2_750X380X600P	B2B-EH-A	1
M4	Connector	J12	SHDR2W64P0X250_1X2_750X380X600P	B2B-EH-A	1
M5	Connector	J13	SHDR2W64P0X250_1X2_750X380X600P	B2B-EH-A	1
M6	Connector	J14	SHDR2W64P0X250_1X2_750X380X600P	B2B-EH-A	1
M7	Connector	J15	SHDR2W64P0X250_1X2_750X380X600P	B2B-EH-A	1
Input	Connector	J16	SHDR2W64P0X250_1X2_750X380X600P	B2B-EH-A	1
SFD-05VDCSLC	5V Trigger Relay Module For Arduino And Raspberry Pi 5V Trigger Relay Module For Arduino And Raspberry Pi	K1	RELAY_SFD-05VDCSLC	SFD-05VDCSLC	1
LM7805CT	Integrated Circuit	Q1	TO254P470X1028X1955-3P	LM7805CT	1
LM7809CT	Power Supply	Q2	TO254P470X1016X2019-3P	LM7809CT	1
BC109C	Transistor BJT NPN	Q3	CENTRAL_TO18	BC109C	1
MFR-25FBF52-221R	Axial Resistor, 221 Ohm, +/- 1%, 250 mW, -55 to 155 degC, 2-Pin THD, RoHS, Bulk	R1	RESA60-630X240	OMP-009-00051-4	1
MFR-25FBF52-10K	Axial Resistor, 10 KOhm, +/- 1%, 0.25 W, -55 to 155 degC, 2-Pin THD, RoHS, Bulk	R2	RESA60-630X240	OMP-009-00047-4	1
1k	RES1.18K OHM 1/4W 1% AXIAL	R3, R5, R6, R7, R8, R9, R10, R11	FP-MFR-25-MFG	OMP-03413-000001-1	8
10k	RES1.18K OHM 1/4W 1% AXIAL	R4	FP-MFR-25-MFG	OMP-03413-000001-1	1
B3F-1000	Tactile Switch, SPST-NO, 0.05 A, 24 V, -25 to 70 degC, 4-Pin THD, RoHS, Bulk	S1	OMRON-B3F-1000-4_V	OMP-011-00004-2	1
ATMEGA328P-PU	8-Bit Microcontroller with 32 KBytes In-System Programmable Flash, 23 I/Os, -40 to 85 degC, 28-Pin PDIP (28P3), RoHS, Tube	U1	ATML-28P3	OMP-020-00004-3	1
A4988_STEPPER_MOTOR_DRIVER_CARRIER	Stepper motor controller; IC: A4988; 1A; Uin mot: 8A 35V	U2, U3, U4	MODULE_A4988_STEP PER_MOTOR_DRIVER_CARRIER	A4988_STEPPER_MOT OR_DRIVER_CARRIER	3