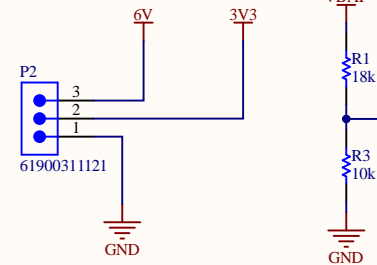
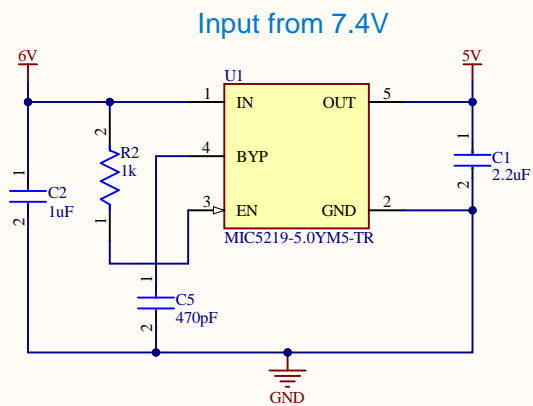
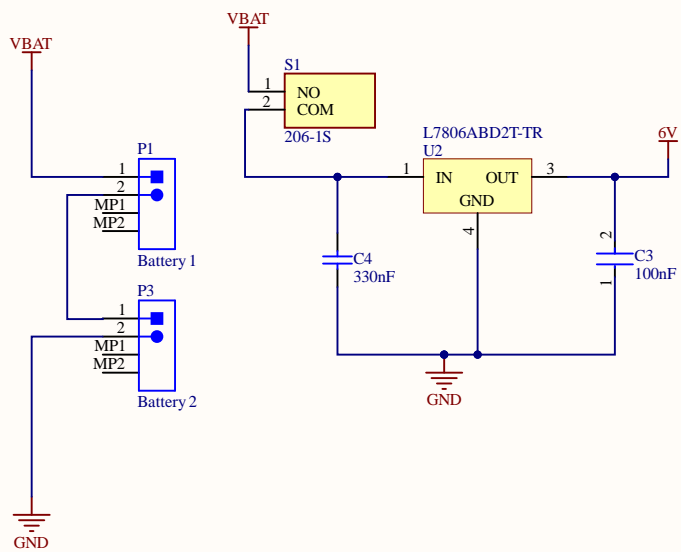
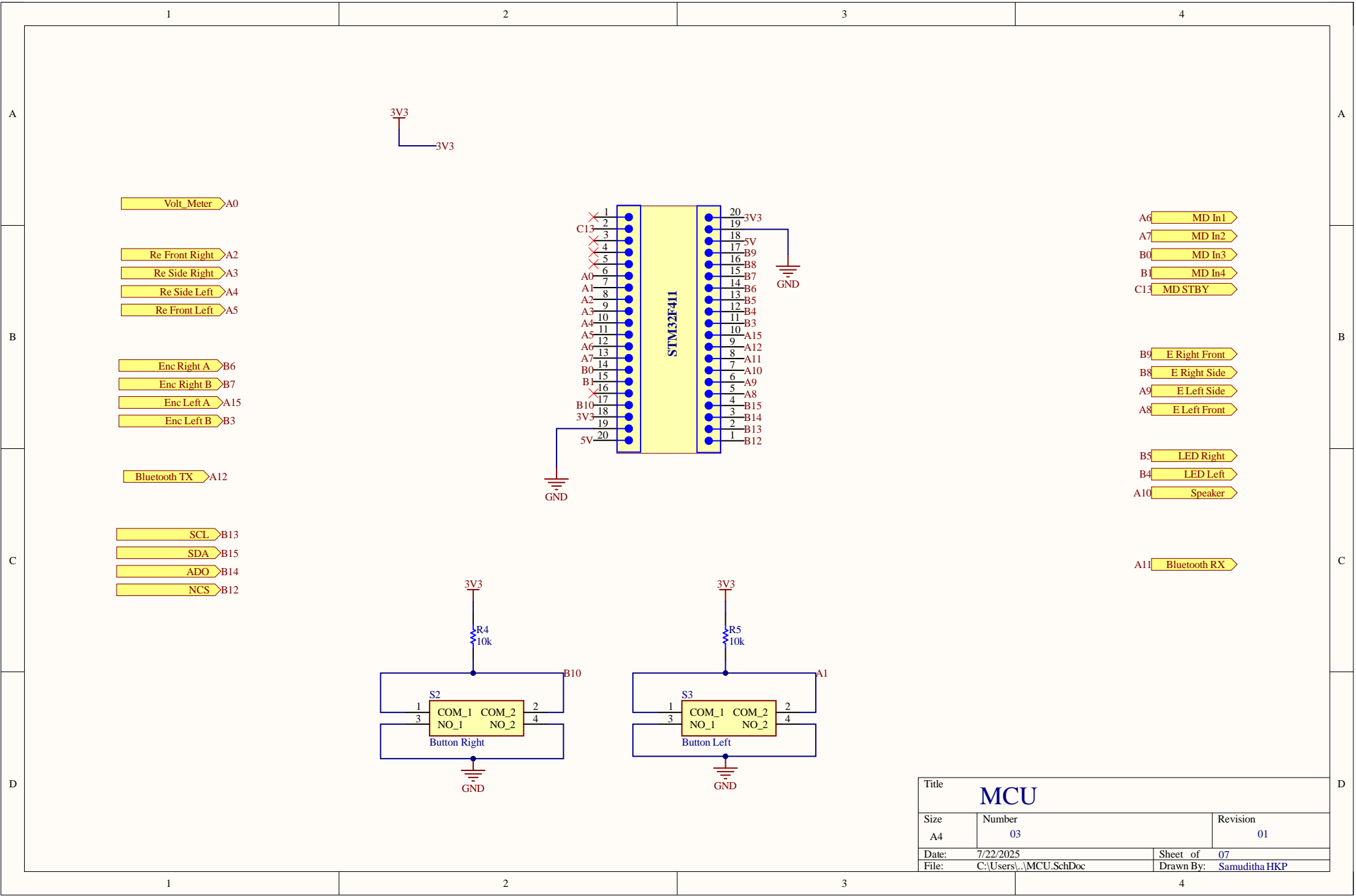
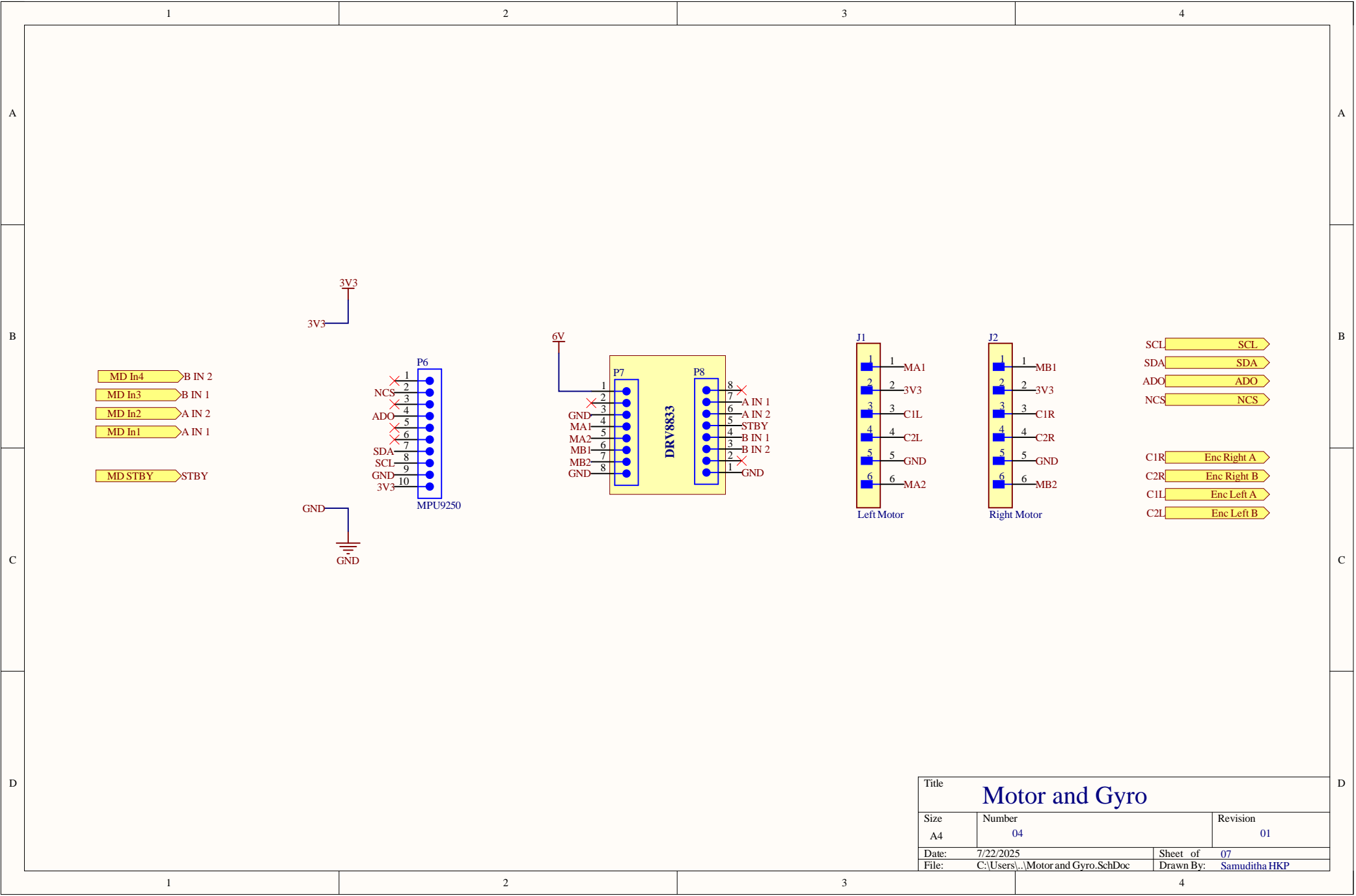


Title			
Main Sheet			
Size	Number	Revision	
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Date:	7/22/2025	Sheet of 07	
File:	C:\Users\...\Main.SchDoc	Drawn By: Samuditha HKP	

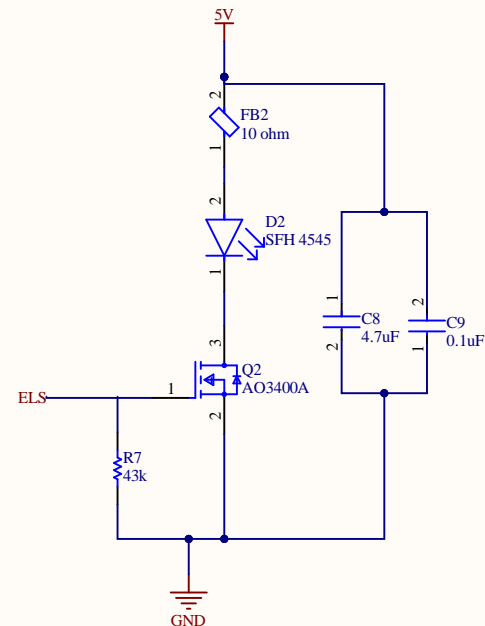
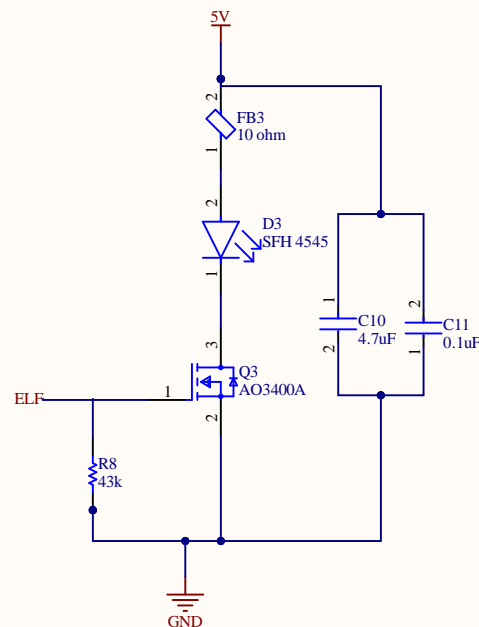
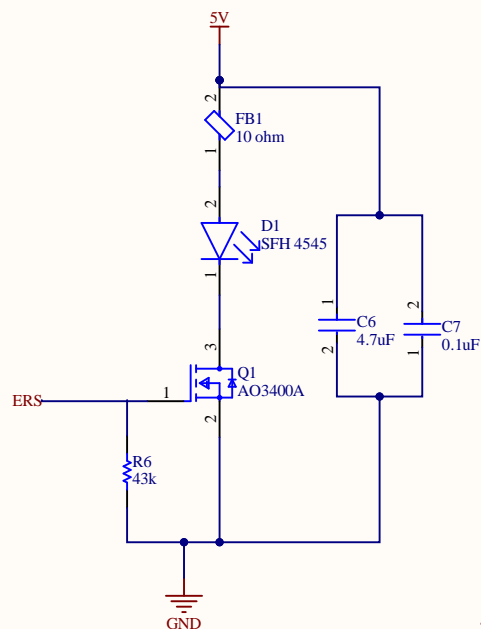
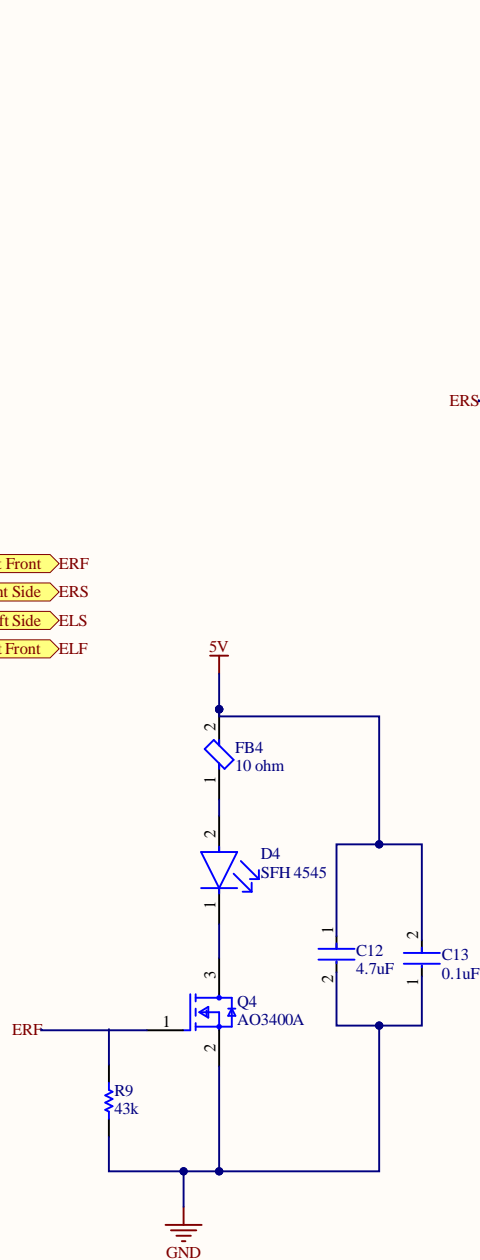


Title			
Power			
Size	Number	Revision	
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Date:	7/22/2025	Sheet of	07
File:	C:\Users\...\Power.SchDoc	Drawn By:	Samuditha HKP

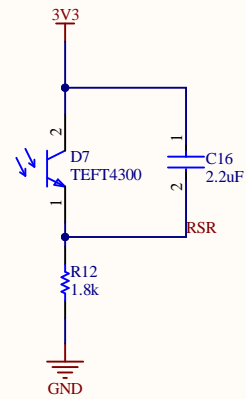
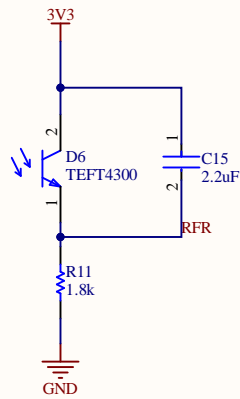
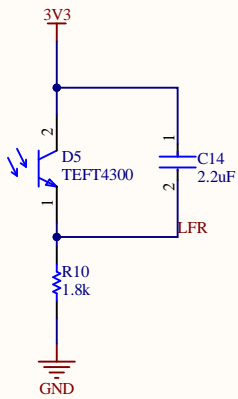
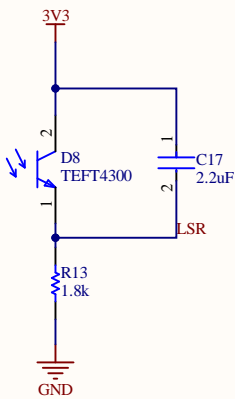




- E Right Front >ERF
- E Right Side >ERS
- E Left Side >ELS
- E Left Front >ELF



Title		
IR Transmitter		
Size	Number	Revision
A4	05	01
Date:	7/22/2025	Sheet of 07
File:	C:\Users\...IR Transmitter.SchDoc	Drawn By: Samuditha HKP

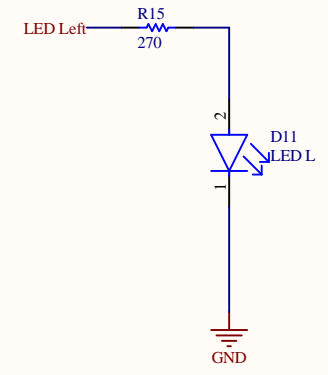
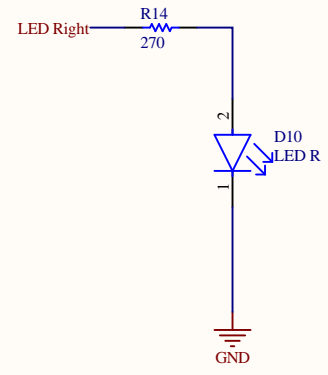
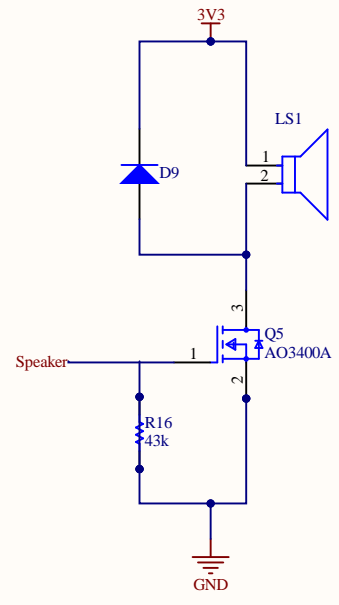
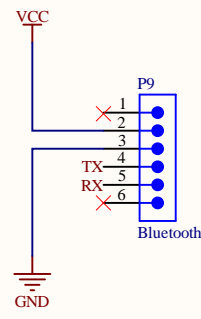


- RFR Re Front Right
- RSR Re Side Right
- LSR Re Side Left
- LFR Re Front Left

Title			
IR Receiver			
Size	Number	Revision	
A4	06	01	
Date:	7/22/2025	Sheet of	07
File:	C:\Users\...\IR Receiver.SchDoc	Drawn By:	Samuditha HKP

LED Right
LED Left
Speaker

Bluetooth RX



Bluetooth TX

Title			
Indicators			
Size	Number	Revision	
A4	07	01	
Date:	7/22/2025	Sheet of	07
File:	C:\Users\...\Indicators.SchDoc	Drawn By:	Samuditha HKP

Comment	Description	Designator	Footprint	LibRef	Quantity
2.2uF	CAP CER 2.2UF 10V X7S0402	C1	FP-C1005-050-0_15-0_1-MFG	CMP-08246-004344-1	1
1uF	CAP CER 1UF 10V X5R 0402	C2	FP-C0402C105K8PACTU-MFG	CMP-2008-02081-2	1
100nF	CAP CER 0.1UF 16V X7R0402	C3	FP-GRM15-MFG	CMP-2100-03641-2	1
330nF		C4	CAPC1005X55X25ML05T10	CMP-2008-03929-1	1
470pF	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 470pF, COG, 30ppm/°C, 5%, 50V	C5	FP-GRM155-0_05-IPC_A	CMP-2008-04369-2	1
4.7uF	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 4.7uF, X5R, 15%, 20%, 6.3V	C6, C8, C10, C12	FP-GRM155-0_1-IPC_B	CMP-2008-04549-2	4
0.1uF	CAP CER 0.1UF 16V X7R0402	C7, C9, C11, C13	FP-GRM15-MFG	CMP-2100-03641-2	4
2.2uF	CAP CER 2.2UF 6.3V X5R0402	C14, C15, C16, C17	FP-C0402C225M8PACTU-MFG	CMP-2008-02064-3	4
SFH4545	EMITTER IR 860NM 100MA RADIAL	D1, D2, D3, D4	FP-SFH_4556-MFG	CMP-62016-000017-1	4
TEFT4300	TEFT4300 PHOTOTRANSISTOR 3.0MM WIDE VIEW/ Phototransistor IR Chip Silicon 925nm 2-Pin T-1	D5, D6, D7, D8	FP-6_544-5269_01-4-MFG	CMP-00030-39729854-1	4
1N4148W-7-F	Fast Switching Diode, 100 V, 0.15 A, -65 to 150 degC, 2-Pin SOD123, RoHS, Tape and Reel	D9	DIOD-SOD123-2_V	CMP-2000-04932-2	1
LED R	LED GREEN CLEAR CHIP SMD	D10	FP-AFH1H1005CGOK-MFG	CMP-44529-000044-1	1
LED L	LED GREEN CLEAR CHIP SMD	D11	FP-AFH1H1005CGOK-MFG	CMP-44529-000044-1	1
10 ohm	Chip Ferrite Bead, 0402, 10Ω @ 100MHz, 0.1Ω, 25%, 300mA	FB1, FB2, FB3, FB4	FP-BLM15-0_05-MFG	CMP-0686-00305-4	4
Left Motor	CONN HEADER VERT 6POS 2.5MM	J1	FP-B6B-EH-A_LF_SN-MFG	CMP-17439-000293-1	1
Right Motor	CONN HEADER VERT 6POS 2.5MM	J2	FP-B6B-EH-A_LF_SN-MFG	CMP-17439-000293-1	1
PKM22EPPH4001-B0	AUDIO PIEZO TRANSDUCER 30V TH	LS1	FP-PKM22EPPH4001-B0-MFG	CMP-2000-06903-2	1
Battery 1	Male Header, Pitch 2 mm, 1 x 2 Position, Height 5.5 mm, -25 to 85 degC, RoHS, Tape and Reel	P1	JST-S2B-PH-SM4-TB(LF)(SN)-2_V	CMP-1755-00001-1	1
61900311121		P2	61900311121	CMP-1502-00585-2	1
Battery 2	Male Header, Pitch 2 mm, 1 x 2 Position, Height 5.5 mm, -25 to 85 degC, RoHS, Tape and Reel	P3	JST-S2B-PH-SM4-TB(LF)(SN)-2_V	CMP-1755-00001-1	1
61302011121		P4, P5	61302011121	CMP-1502-01102-3	2
MPU6250		P6	61301011121	CMP-1502-01082-5	1
61300811021		P7, P8	61300811021	CMP-1502-01075-3	2
Bluetooth		P9	61300611121	CMP-1502-01070-3	1
AO3400A	MOSFET N-CH 30V 5.7A SOT23	Q1, Q2, Q3, Q4, Q5	FP-SOT23-MFG	CMP-83955-000006-1	5
18k		R1	RESCT1005X40X25LL05T10	CMP-1011-00650-2	1
1k	RES 1K OHM 1% 1/16W 0402	R2	FP-RO402-0_4-IPC_A	CMP-2002-07472-3	1
10k		R3, R4, R5	RESCT1005X40X25LL05T10	CMP-2002-07353-1	3
43k		R6, R7, R8, R9, R16	RESCT1005X40X25NL05T05	CMP-2002-00002-1	5
1.8k		R10, R11, R12, R13	RESCT1005X40X25LL05T05	CMP-2002-01128-1	4
270		R14, R15	RESCT1005X40X25ML05T05	CMP-2002-08427-1	2
206-1S	Switch	S1	2061S	206-1S	1
Button Right	Switch	S2	COM08720	COM-08720	1
Button Left	Switch	S3	COM08720	COM-08720	1
MIC5219-5.0VM5-TR	IC REG LINEAR 5V 500MA SOT23-5	U1	FP-SOT23-5LD-PL-1-MFG	CMP-06324-000019-1	1
L7806ABD2T-TR	Positive Voltage Regulator, 3-Pin D2PAK, Tape and Reel	U2	TO-263_N	CMP-0244-00215-1	1