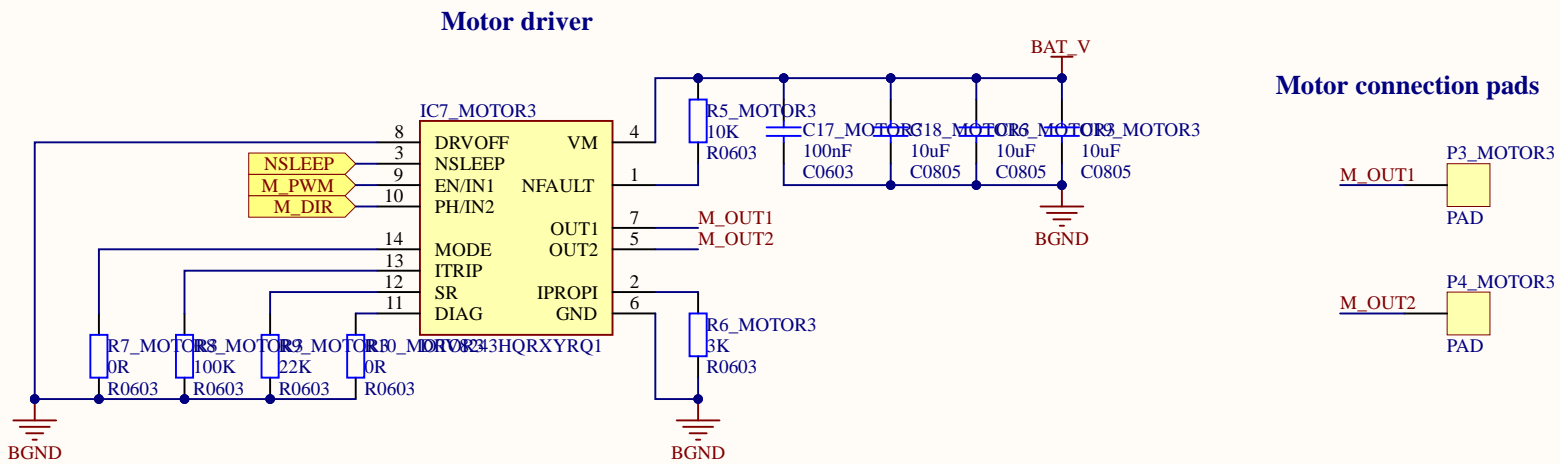
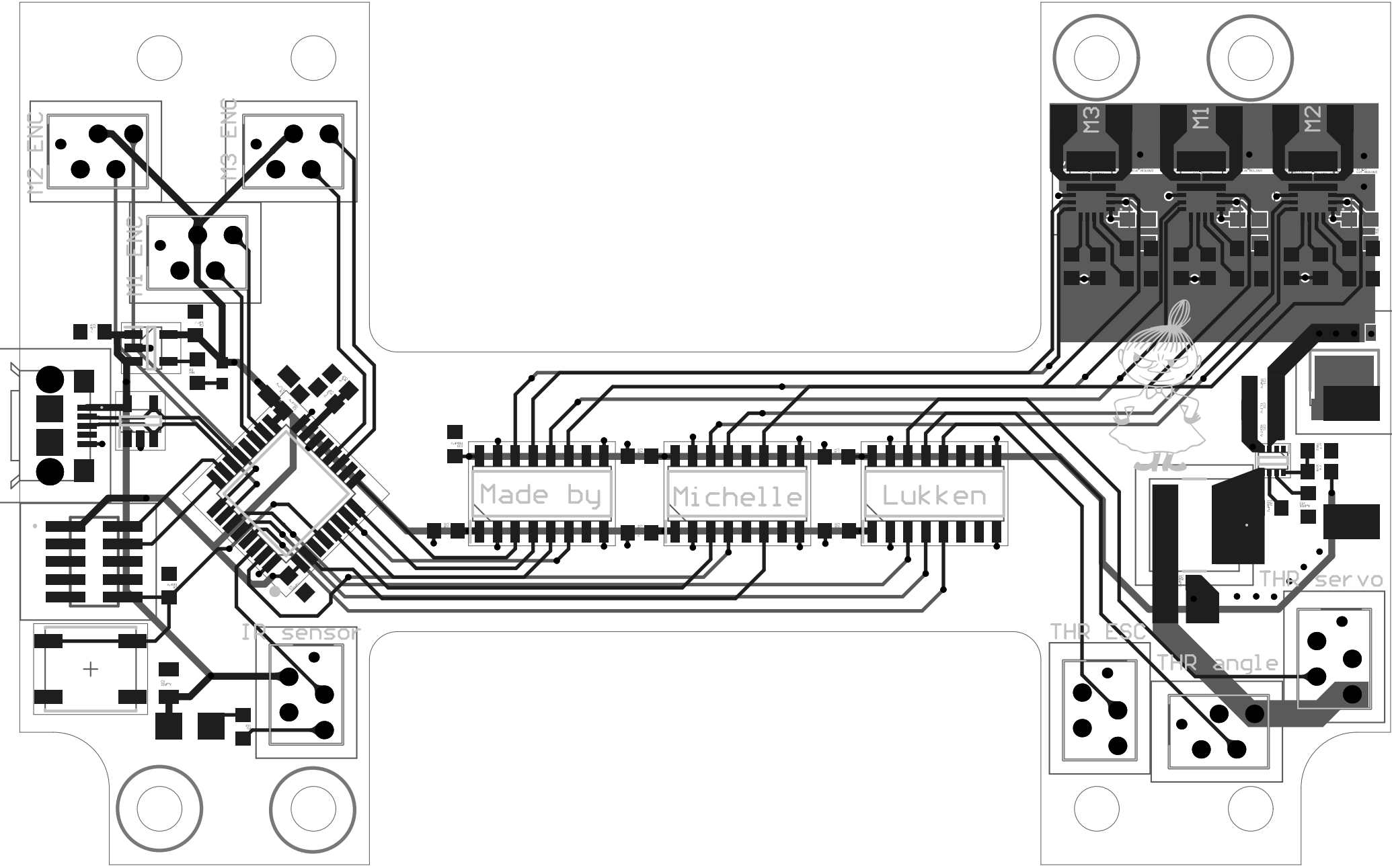


Title			MOTOR DRIVER SCHEMATIC		
Size	Number		Revision		
A					
Date:	1-26-2023		Sheet of		
File:	C:\Users\...\motor.SchDoc		Drawn By:	Michelle Lukken	





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Comment	Description	Designator	Footprint	LibRef	Quantity
100nF*V	Ceramic capacitor	C1, C2, C10, C11, C12, C13, C14, C15, C17_MOTOR1, C17_MOTOR2, C17_MOTOR3, C20, C23, C26	C0603	Capacitor	14
10nF*V	Ceramic capacitor	C3, C6	C0603	Capacitor	2
1uF*V	Ceramic capacitor	C4, C7, C8	C0603	Capacitor	3
4.7uF*V	Ceramic capacitor	C5	C0805	Capacitor	1
22uF*V	Ceramic capacitor	C9	C0805	Capacitor	1
10uF*V	Ceramic capacitor	C16_MOTOR1, C16_MOTOR2, C16_MOTOR3, C18_MOTOR1, C18_MOTOR2, C18_MOTOR3, C19_MOTOR1, C19_MOTOR2, C19_MOTOR3, C21, C22	C0805	Capacitor	11
100uF*V	Ceramic capacitor	C24	C1206	Capacitor	1
33nF*V	Ceramic capacitor	C27	C0603	Capacitor	1
LED	Light Emitting Diode	D2	LED_0603	LED	1
STM32G441KBT6	Integrated Circuit	IC1	QFP80P900X900X160-32N	STM32G441KBT6	1
NCP164CSN330T1G	Integrated Circuit	IC2	SOT95P275X110-5N	NCP164CSN330T1G	1
MAX14930DASE+	Integrated Circuit	IC3, IC4, IC5	SOIC127P600X175-16N	MAX14930DASE+	3
DRV8243HQRXYRQ1	Integrated Circuit	IC7_MOTOR1, IC7_MOTOR2, IC7_MOTOR3	DRV8243HQRXYRQ1	DRV8243HQRXYRQ1	3
XTPS62933DRLR	Integrated Circuit	IC8	SOTFL50P160X60-8N	XTPS62933DRLR	1
10118193-0001LF	Connector	J1	101181930001LF	10118193-0001LF	1
215079-4	Connector	J2, J4, J5, J6, J7, J8, J9	2150794	215079-4	7
FTSH-105-01-L-DV-K	Connector	J3	FTSH10501LDVK	FTSH-105-01-L-DV-K	1
SRP6060FA-5R6M	Inductor	L1	SRP6060FA5R6M	SRP6060FA-5R6M	1
PAD		P1, P2, P3_MOTOR1, P3_MOTOR2, P3_MOTOR3, P4_MOTOR1, P4_MOTOR2, P4_MOTOR3	PAD	PAD	8
PAD		P5, P6	BIG_PAD	PAD	2
BUK6Y24-40PX	MOSFET (P-Channel)	Q1	BUK6Y2440PX	BUK6Y24-40PX	1
10K	Resistor	R3, R5_MOTOR1, R5_MOTOR2, R5_MOTOR3	R0603	Resistor	4
110	Resistor	R4	R0603	Resistor	1
3K	Resistor	R6_MOTOR1, R6_MOTOR2, R6_MOTOR3	R0603	Resistor	3
0R	Resistor	R7_MOTOR1, R7_MOTOR2, R7_MOTOR3, R10_MOTOR1, R10_MOTOR2, R10_MOTOR3	R0603	Resistor	6
100K	Resistor	R8_MOTOR1, R8_MOTOR2, R8_MOTOR3	R0603	Resistor	3
22K	Resistor	R9_MOTOR1, R9_MOTOR2, R9_MOTOR3	R0603	Resistor	3
53K6	Resistor	R16	R0603	Resistor	1
10K2	Resistor	R17	R0603	Resistor	1
EVOQ	Switch	S1	EVOQ	EVOQ	1
CM1223-02SO	TVS diodes 2-ch	U1	SOT95P280X145-5N	CM1223-02SO	1