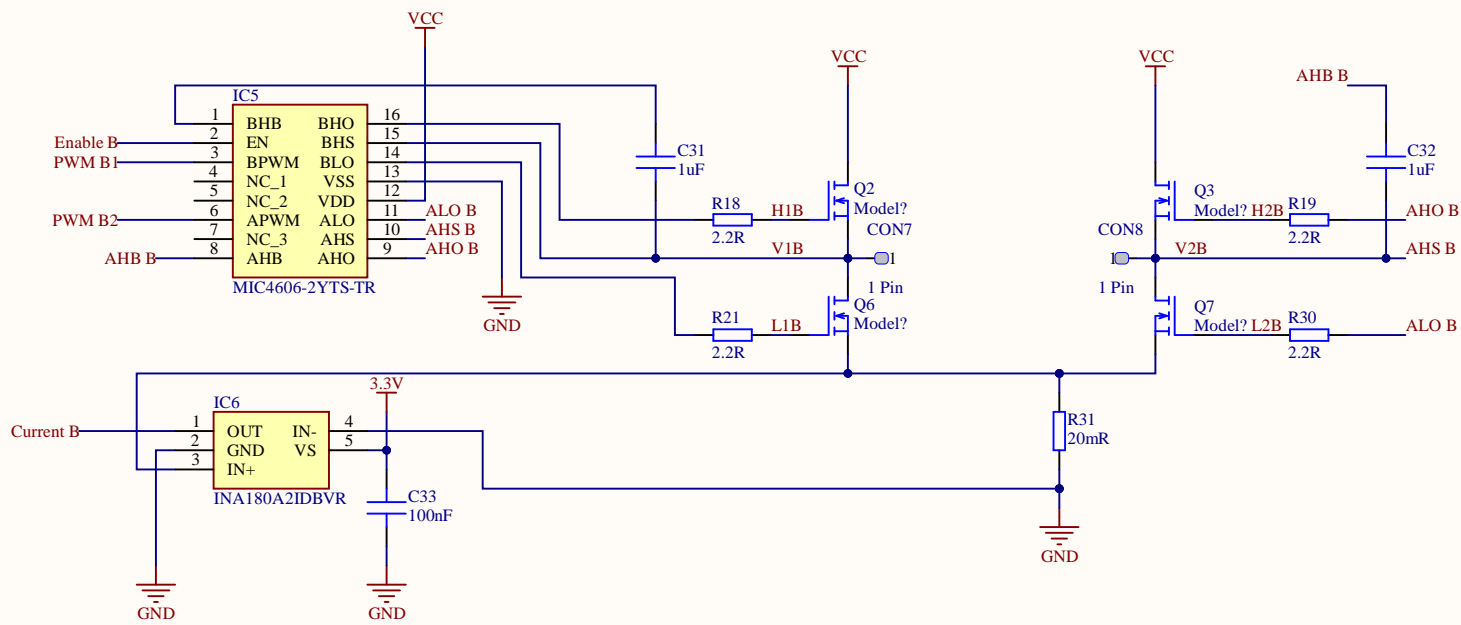
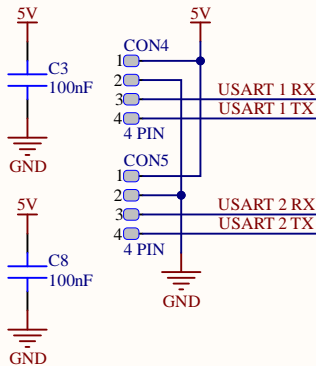
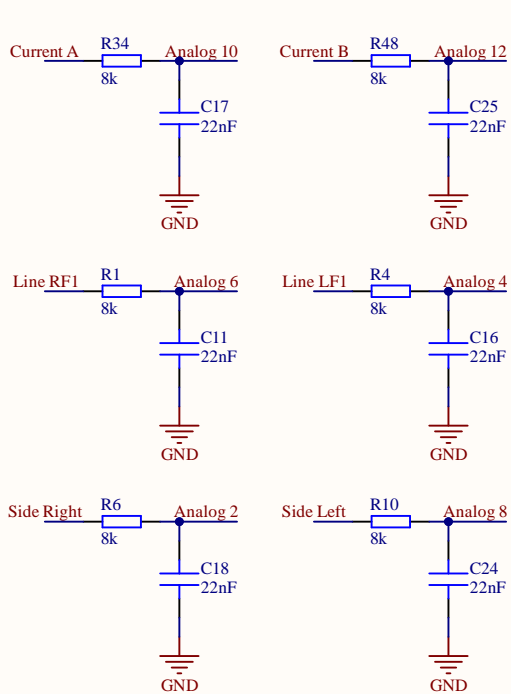


Title		
Size A4	Number	Revision
Date:	2.05.2023	Sheet of
File:	D:\ROBOILO\Altium\SER(Channel-A2, shown By:	



Title		
Size	Number	Revision
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Date:	2.05.2023	Sheet of
File:	D:\ROBOILO\Altium\SER(Channel-B2,down By:	

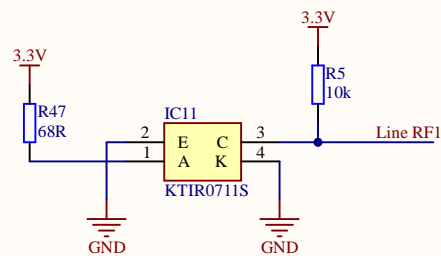
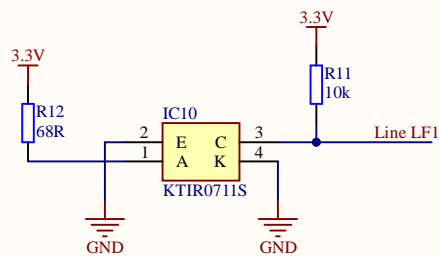
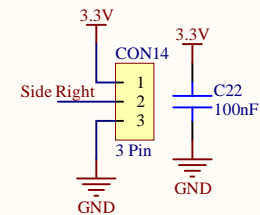
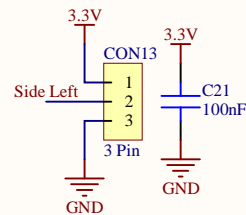


procesor analogi

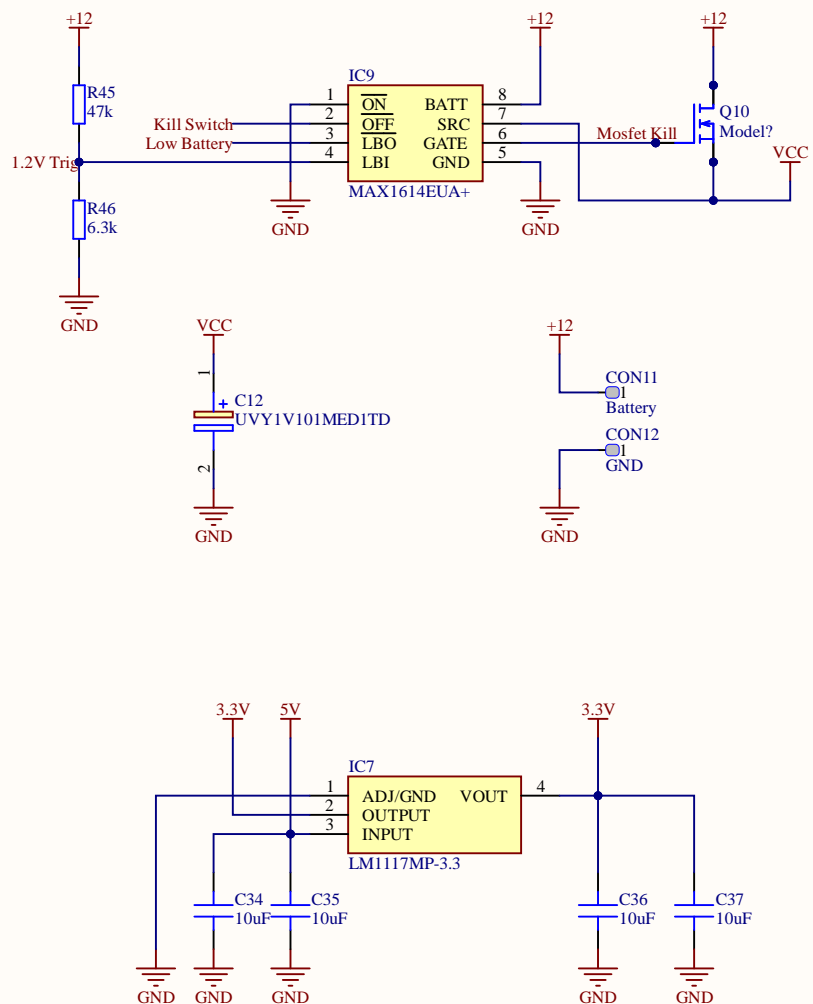
to u góry w zasadzie gdziekolwiek  
jeżeli się nie zmieści wyrzucić

to po prawej toczy robotę to co się  
kiwają

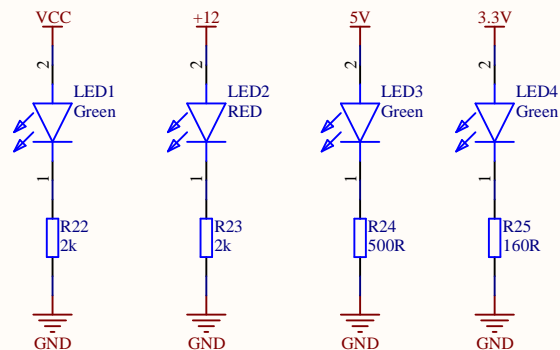
to na dole po rogach na dole płytki



Title		
Size A4	Number	Revision
Date: 2.05.2023	Sheet of	
File: D:\ROBOILO\...\Connectors-and-Filters.sch	Drawn By:	



Wszystko przy silnikach



## Interface

Title		
Size A4	Number	Revision
Date: 2.05.2023	Sheet of	
File: D:\ROBOILO\Altium\SER\Interface1.sch	Drawn By:	

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A

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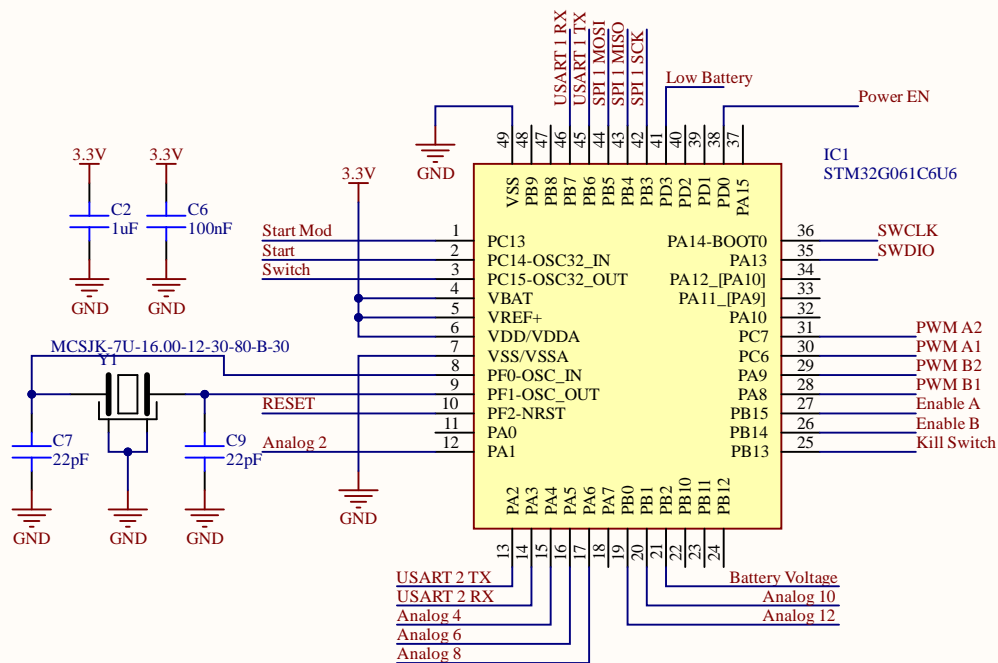
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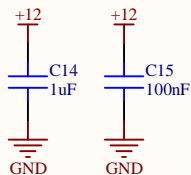
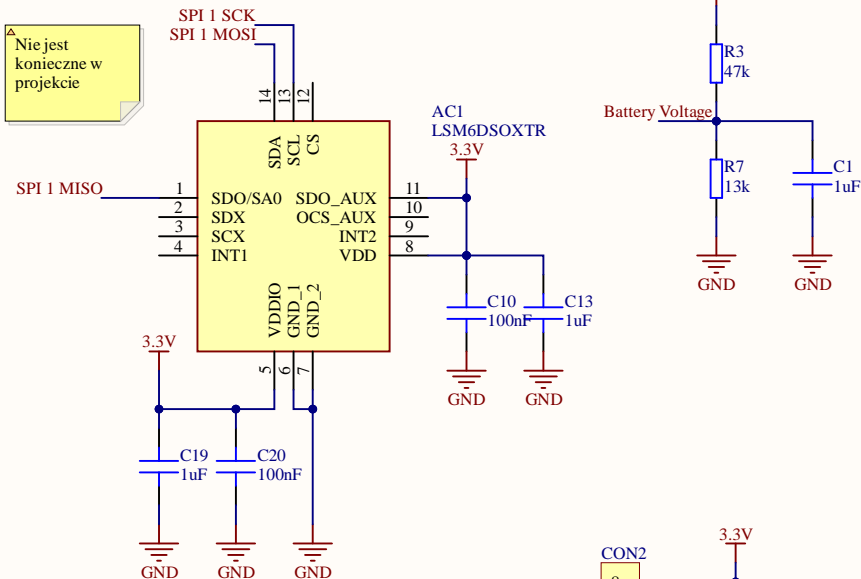
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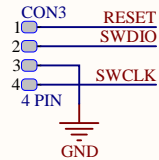
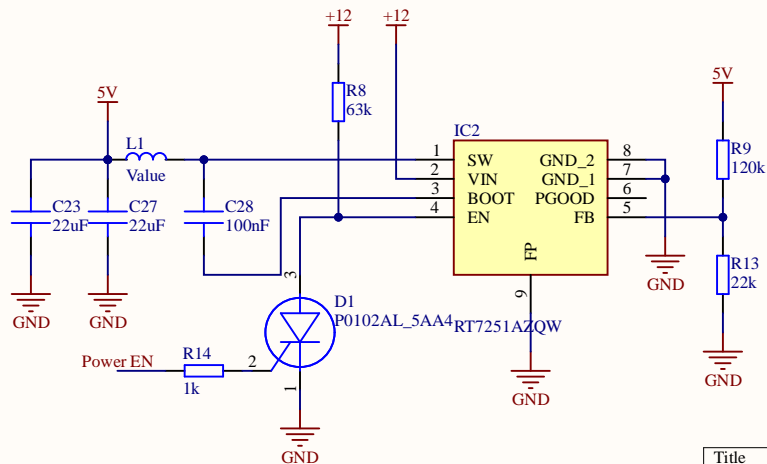
D



Nie jest konieczne w projekcie



przy silnikach  
razem



gdzie kowiek  
procesor  
to co  
podłączalaś

Title		
Size	Number	Revision
A4		
Date:	2.05.2023	Sheet of
File:	D:\ROBOILO\...\MCU-and-ICs.schdoc	Drawn By:

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# ROBOILO

SER Mainboard revision 1.00

Sensor Right

Sensor Left

GND  
Side Left  
3.3V

GND  
Side Right  
3.3V

Interface Board

CON2

RESET  
SMDIO  
SCLK  
SWITCH  
START  
MOD  
GND  
3.3V

UART 1  
UART 2

CON4

TX  
RX  
GND  
5V

CON5

TX  
RX  
GND  
5V

SWD

CON3

SCLK  
GND  
SMDIO  
RESET

IC1

IC2

IC3

IC4

IC5

IC6

IC7

IC8

IC9

IC10

IC11

IC12

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Comment	Description	Designator	Footprint	LibRef	Quantity
LSM6DSOXTR	Accelerometer	AC1	LGA-14_1	LSM6DSOXTR	1
1uF	MLCC Capacitor	C1, C2, C13, C14, C19	C 0402	Capacitor	5
100nF	MLCC Capacitor	C3, C6, C8, C10, C15, C20, C21, C22, C28	C 0402	Capacitor	9
22pF	MLCC Capacitor	C7, C9	C 0402	Capacitor	2
22nF	MLCC Capacitor	C11, C16, C17, C18, C24, C25	C 0402	Capacitor	6
UVY1V101MED1TD	Capacitor Polarised	C12	CAPPRD250W50D655 H1250	UVY1V101MED1TD	1
22uF	MLCC Capacitor	C23, C27	C 0402	Capacitor	2
1uF	MLCC Capacitor	C26, C29, C31, C32	C 0603	Capacitor	4
100nF	MLCC Capacitor	C30, C33	C 0603	Capacitor	2
10uF	MLCC Capacitor	C34, C35, C36, C37	C 0805	Capacitor	4
1 Pin		CON1, CON6, CON7, CON8	SMD PAD	1 Pin	4
JST		CON2	BM08B-SRSS-TB	8 Pin	1
4 PIN		CON3, CON4, CON5	SM04B-SRSS-TB	4 PIN	3
Battery		CON11	SMD PAD	1 Pin	1
GND		CON12	SMD PAD	1 Pin	1
3 Pin		CON13, CON14	BM03B-SRSS-TB	3 Pin	2
P0102AL_5AA4	SCR	D1	SOT95P255X140-3N	P0102AL_5AA4	1
STM32G061C6U6	Integrated Circuit	IC1	QFN50P700X700X65-49N-D	STM32G061C6U6	1
RT7251AZQW	Integrated Circuit	IC2	SON50P200X200X80-9N-D	RT7251AZQW	1
MIC4606-2YTS-TR	Integrated Circuit	IC3, IC5	SOP65P640X120-16N	MIC4606-2YTS-TR	2
INA180A2IDBVR	Integrated Circuit	IC4, IC6	SOT95P280X145-5N	INA180A2IDBVR	2
LM1117MP-3.3	Integrated Circuit	IC7	SOT230P700X180-4N	LM1117MP-3.3	1
MAX1614EUA+	Integrated Circuit	IC9	SOP65P490X110-8N	MAX1614EUA+	1
KTIR0711S	Integrated Circuit	IC10, IC11	KTIR0711S	KTIR0711S	2
Value	General pourpouse inductor	L1	L 0603	Inductor	1
Green	LED	LED1, LED3, LED4	LEDC1608X50N	150060GS55040	3
RED	LED	LED2	LEDC1608X50N	150060GS55040	1
Model?	N-Mosfet DFN 5x6	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q10, Q15	DFN 5x6	Power MOSFET	9
8k	General pourpouse resistor	R1, R4, R6, R10, R34, R48	R 0402	Resistor	6
2.2R	General pourpouse resistor	R2, R15, R16, R17, R18, R19, R21, R30	R 0402	Resistor	8
47k	General pourpouse resistor	R3, R45	R 0402	Resistor	2
10k	General pourpouse resistor	R5, R11	R 0402	Resistor	2
13k	General pourpouse resistor	R7	R 0402	Resistor	1
63k	General pourpouse resistor	R8	R 0402	Resistor	1
120k	General pourpouse resistor	R9	R 0402	Resistor	1
68R	General pourpouse resistor	R12, R47	R 0402	Resistor	2
22k	General pourpouse resistor	R13	R 0402	Resistor	1
1k	General pourpouse resistor	R14	R 0402	Resistor	1
20mR	General pourpouse resistor	R20, R31	R 2512	Resistor	2
2k	General pourpouse resistor	R22, R23	R 0402	Resistor	2
500R	General pourpouse resistor	R24	R 0402	Resistor	1
160R	General pourpouse resistor	R25	R 0402	Resistor	1
6.3k	General pourpouse resistor	R46	R 0402	Resistor	1
MCSJK-7U-16.00-12-30-80-B-30	Crystal or Oscillator	Y1	MCSJK7U1600123080 B30	MCSJK-7U-16.00-12-30-80-B-30	1