Content

VULTURE_HMCB_V01

Syrius 炬星	Syriusrobotics Technologies(ShenZhen)		
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Date:	2023-12-25	VER: V01	SIZE: A3
Author:	LIANGKUAI	Sheet 1	of 18

Change List

VER.	WHO	DATA	Description
HMCB_V01	liangkuai	2023.11.29	第一版设计

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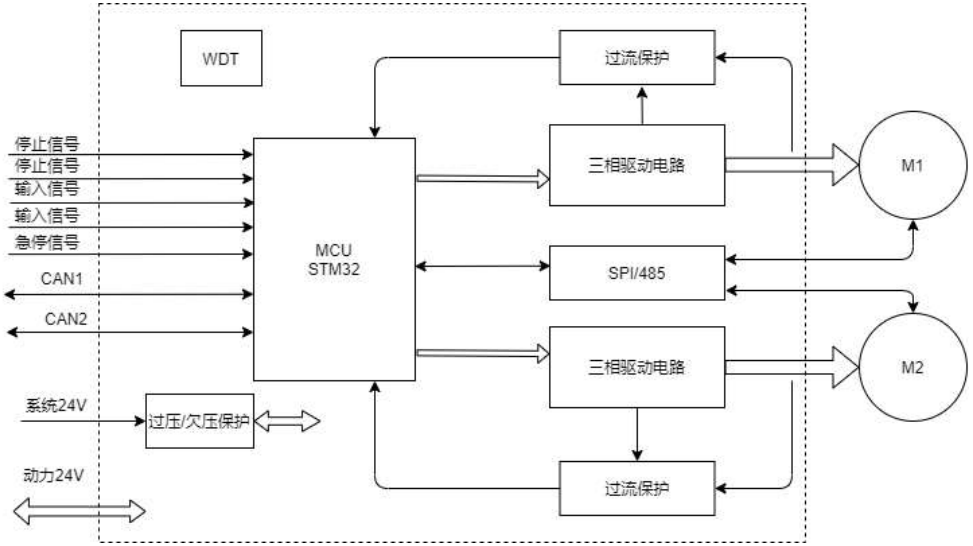
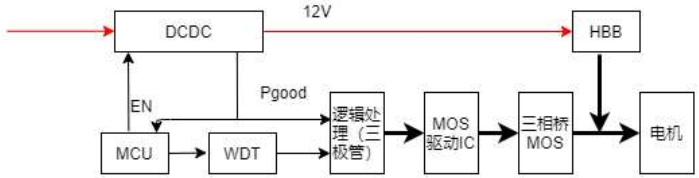
Block Diagram





1.MCU 驱动电机前（包括自检），先打开对外12V电源（高电平打开），并检测12V是否正常，对外12V正常后才能驱动mos
2.MCU检测到过流事件，先让电机自由状态，在关闭对外12V输出

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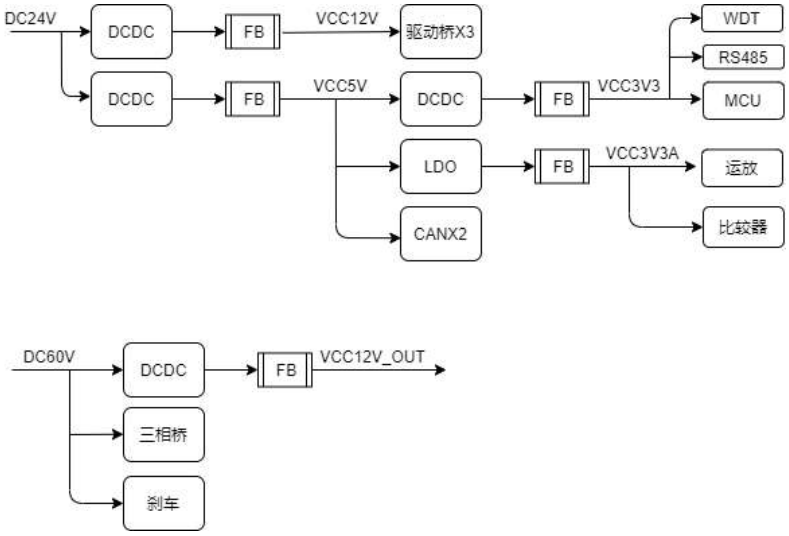
Power Tree



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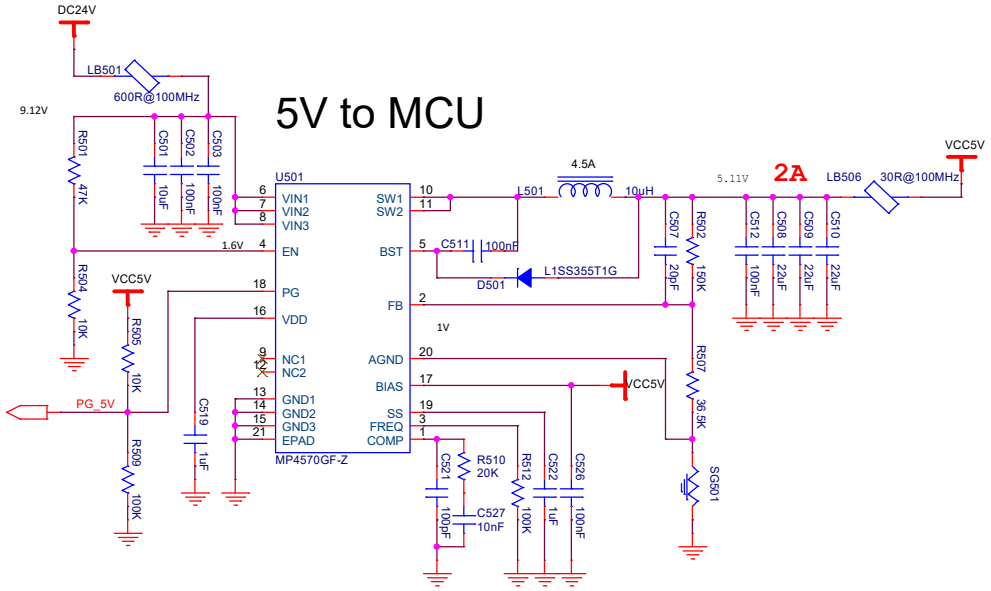
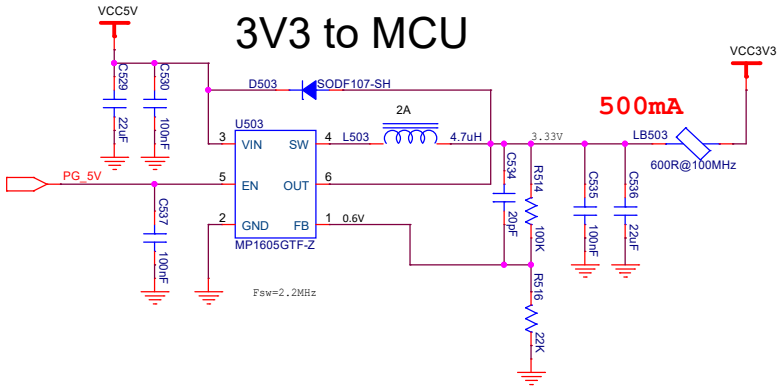
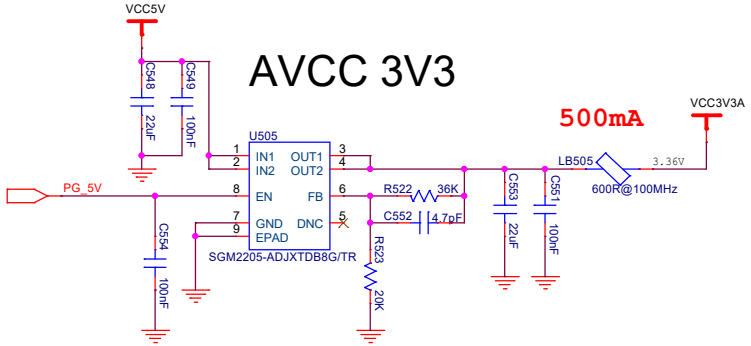
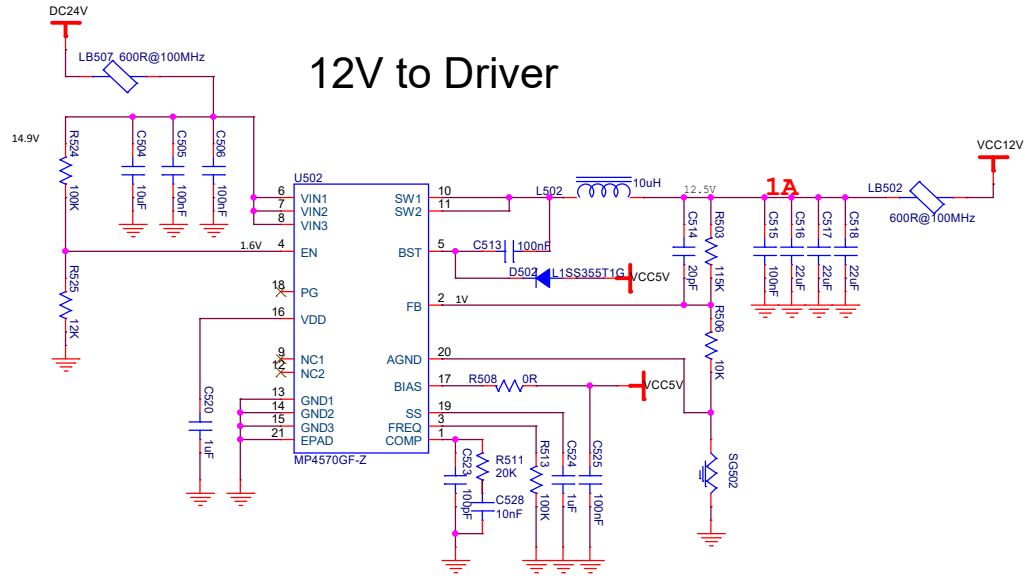
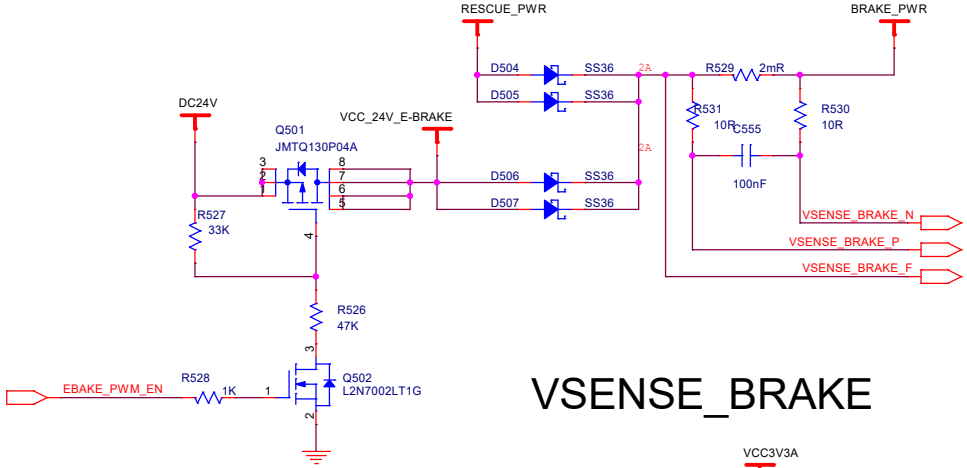
Power

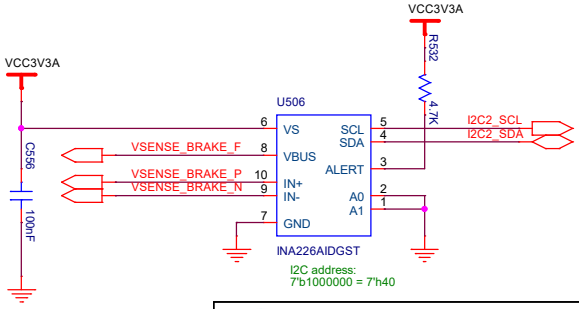












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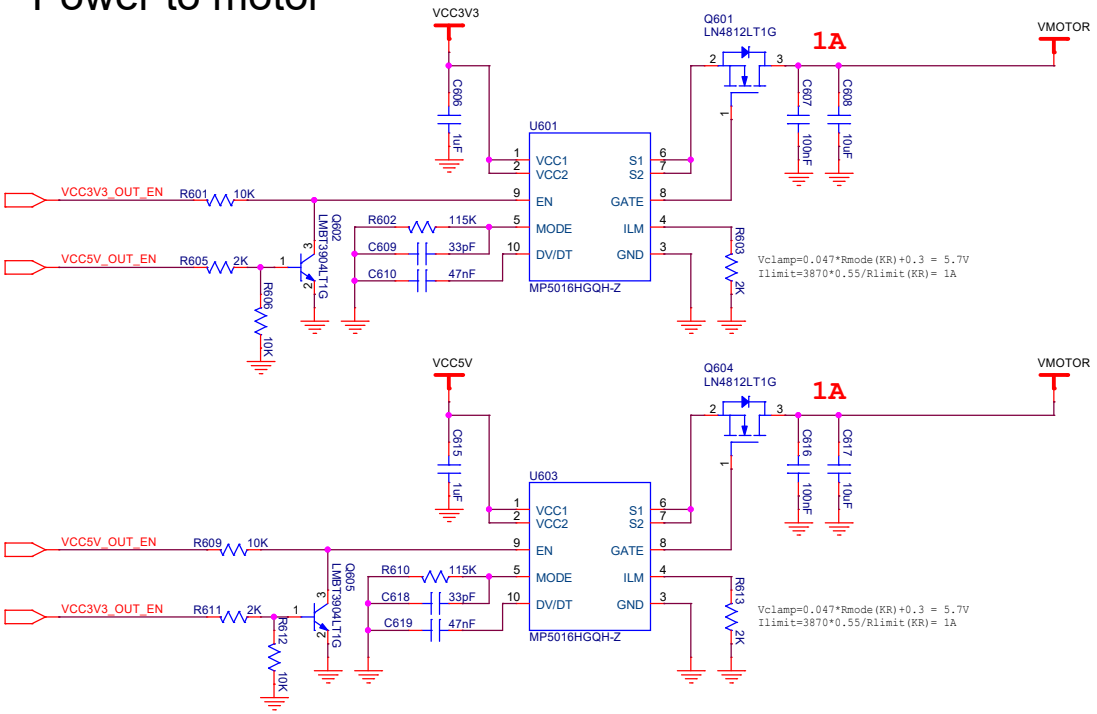
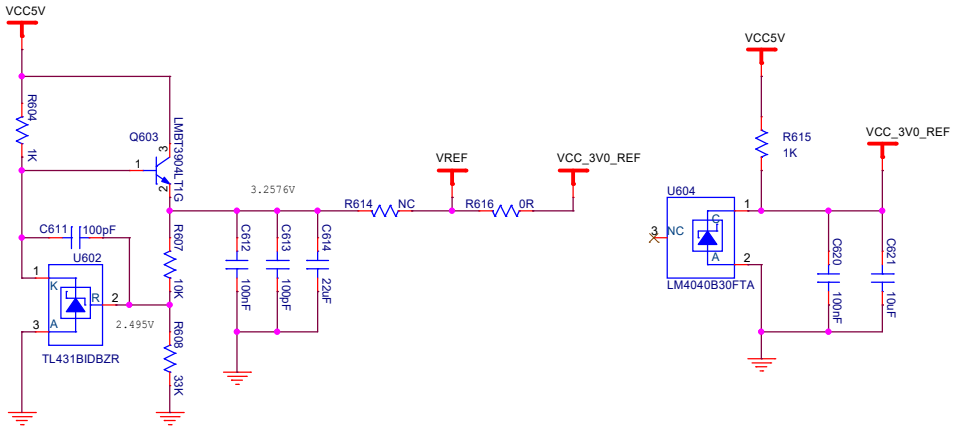
Power Contol

OVP

Power to motor



Power of VREF



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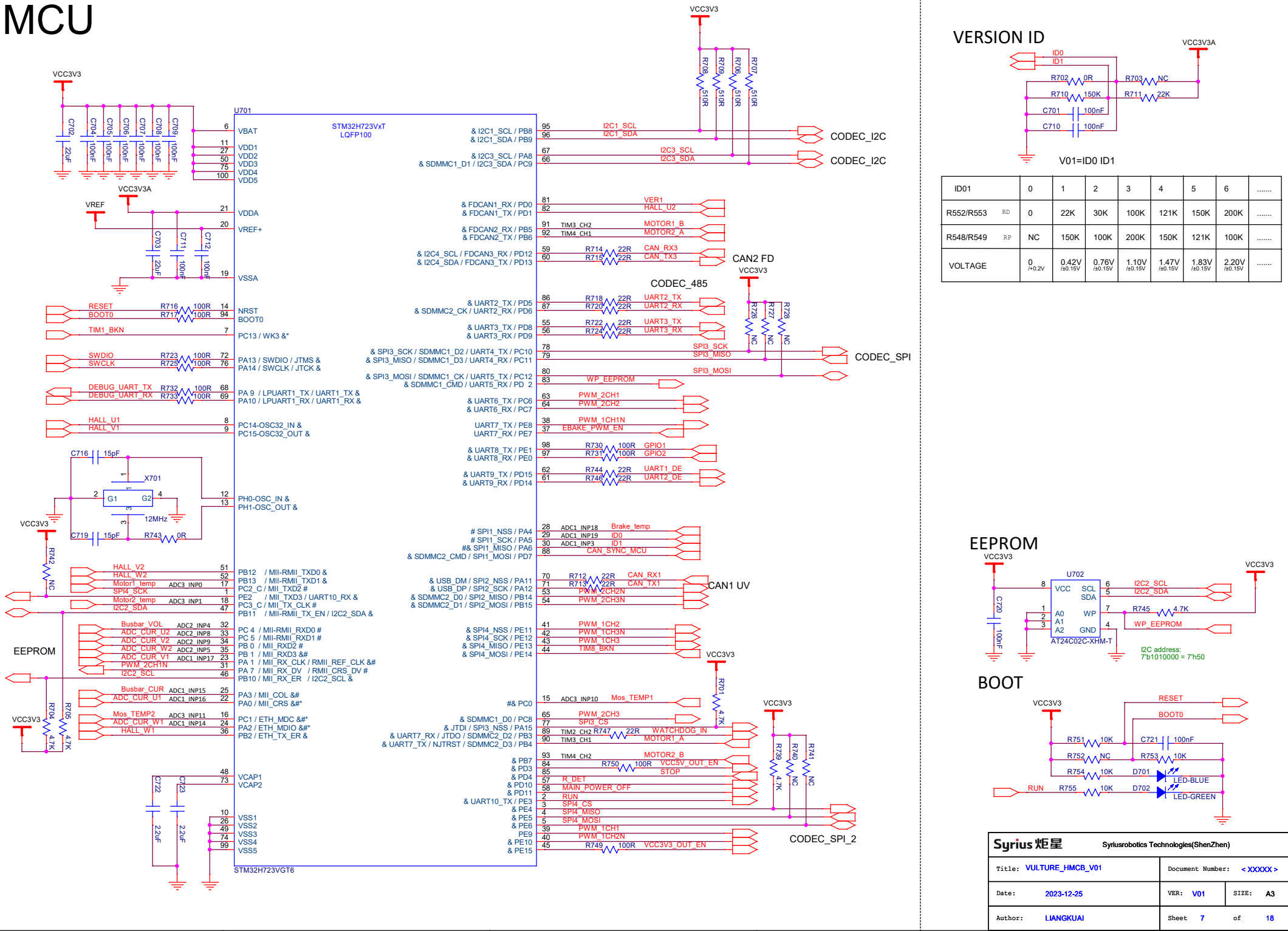
MCU



VERSION ID

V01=ID0 ID1

ID01	0	1	2	3	4	5	6	.....
R552/R553 RD	0	22K	30K	100K	121K	150K	200K	.....
R548/R549 RP	NC	150K	100K	200K	150K	121K	100K	.....
VOLTAGE	0 /+0.2V	0.42V /±0.15V	0.76V /±0.15V	1.10V /±0.15V	1.47V /±0.15V	1.83V /±0.15V	2.20V /±0.15V	.....

EEPROM

BOOT

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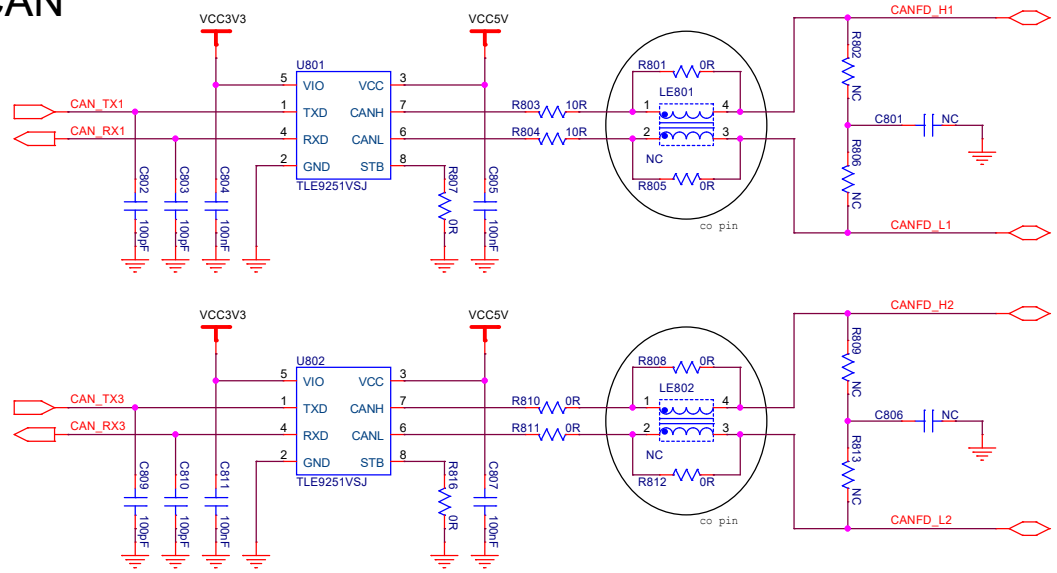
CAN&WD&RS485

CAN



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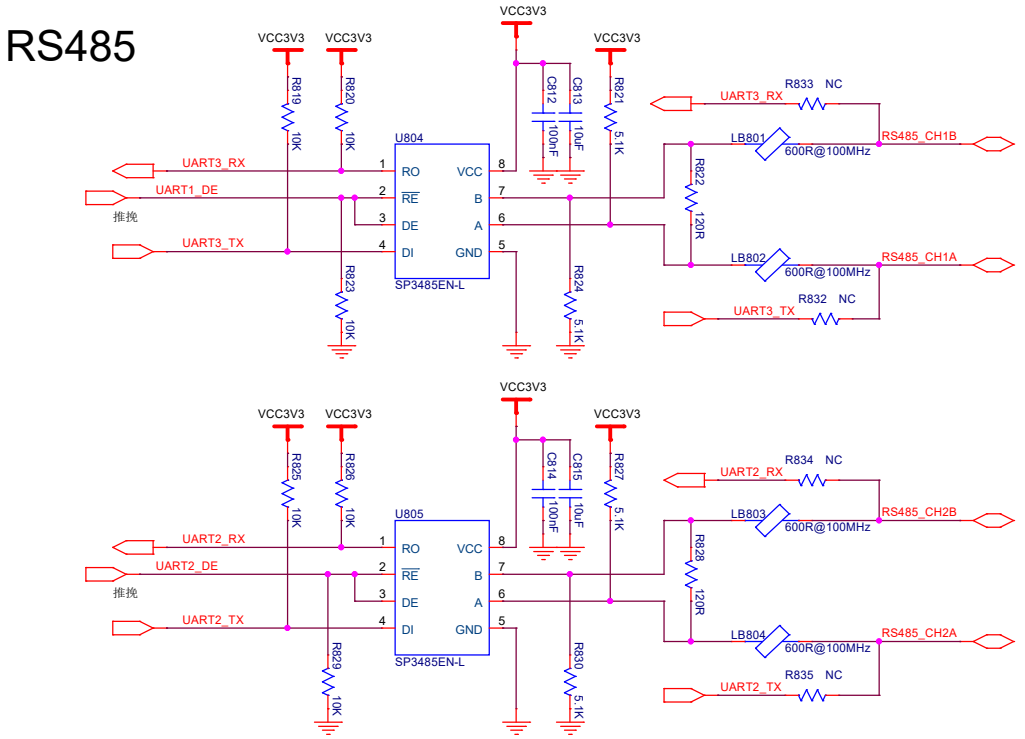
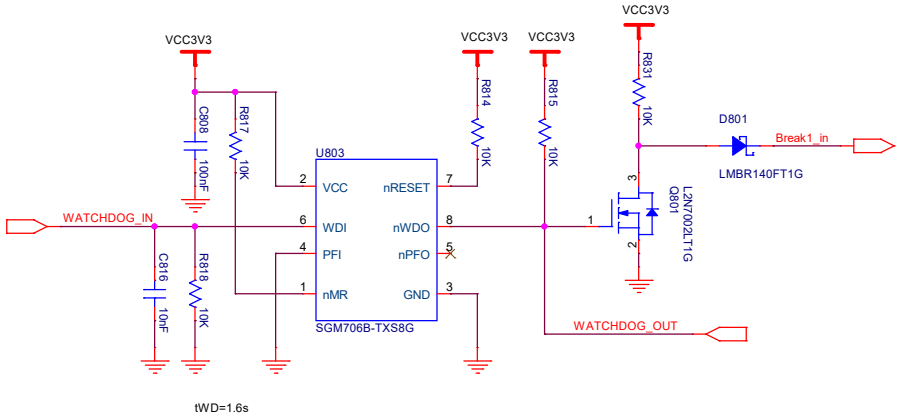


WATCH DOG



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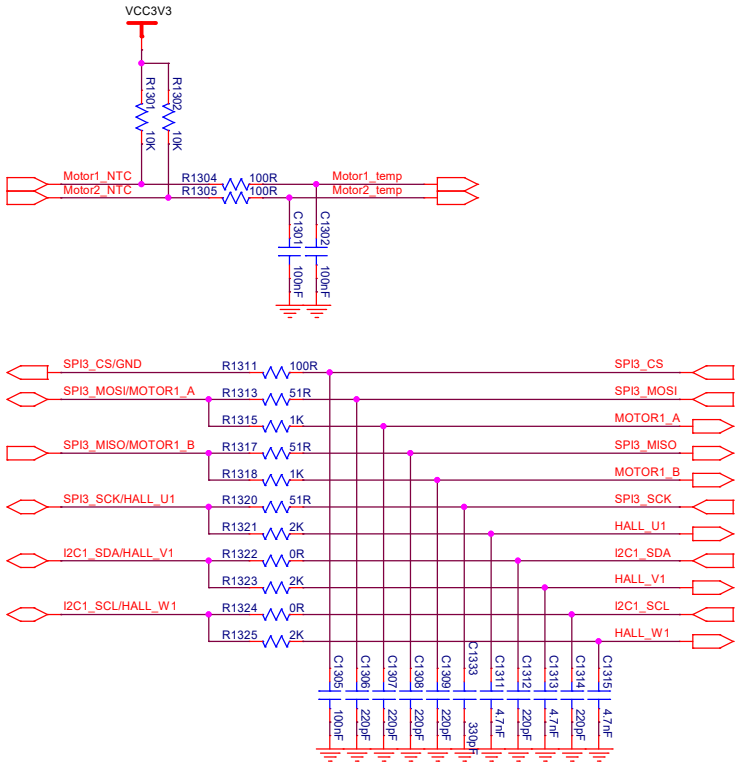
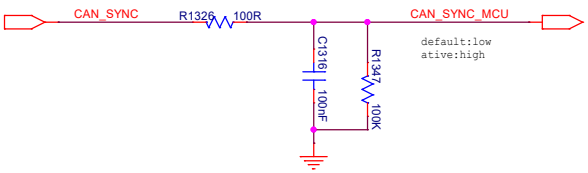
Peripheral

MOTOR OUT

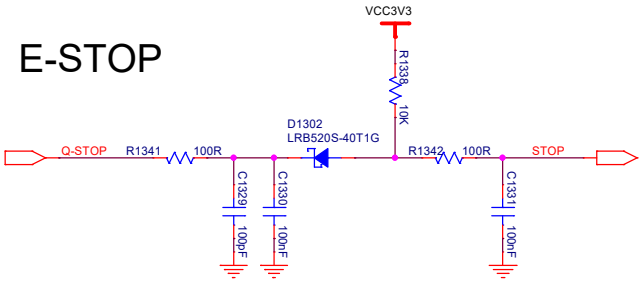


12V OUT DETECT

CAN SYNC



E-STOP



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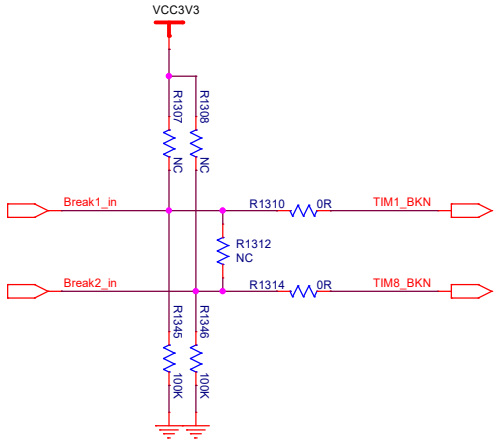

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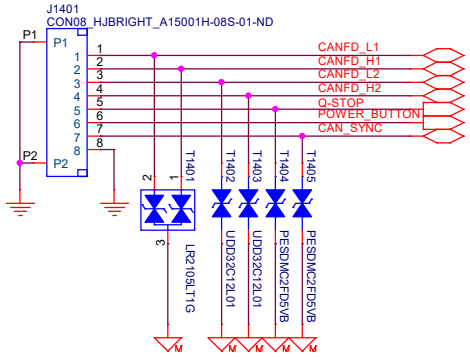
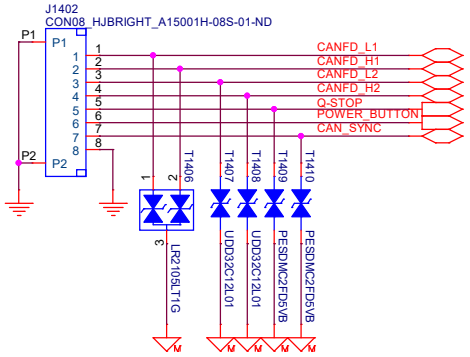
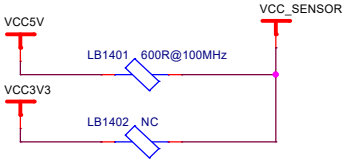
Connector to Board

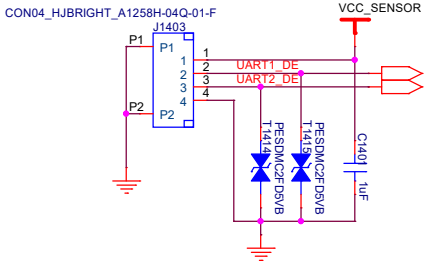
SYSTEM

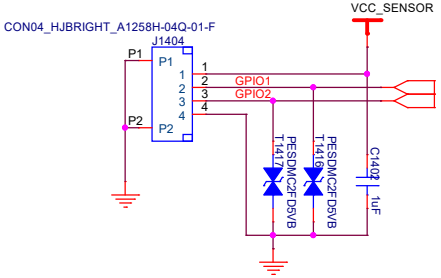


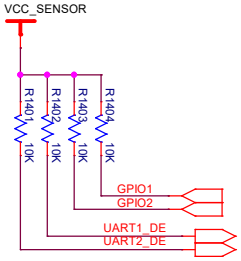


HAND SWITCH









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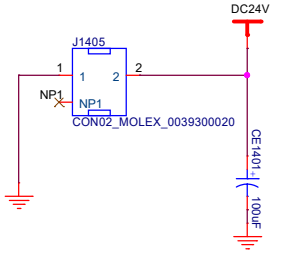
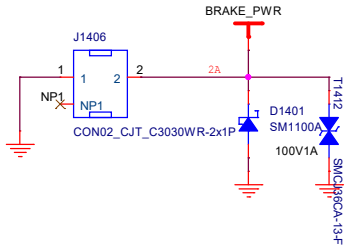
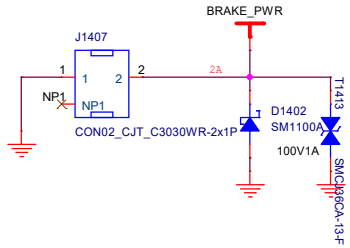


BAKE





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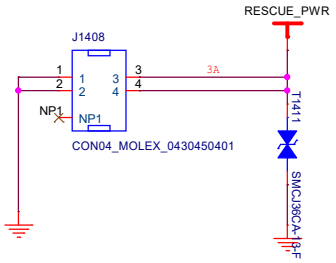

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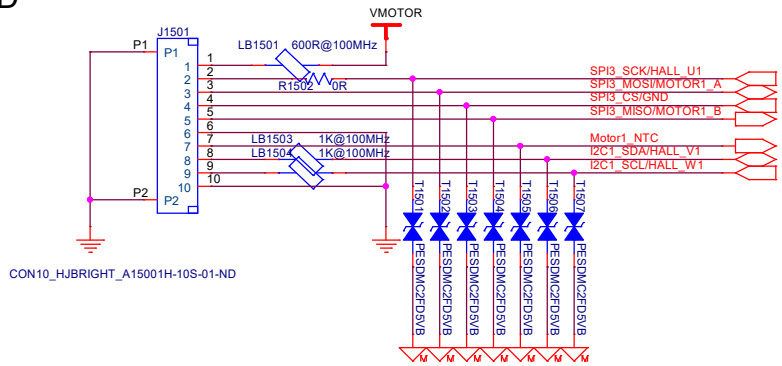
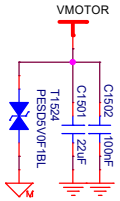
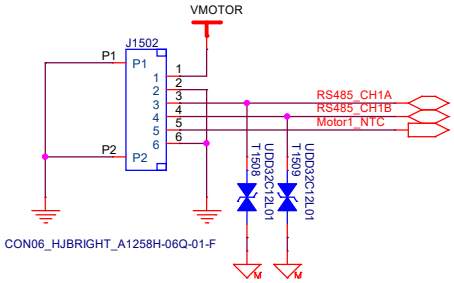
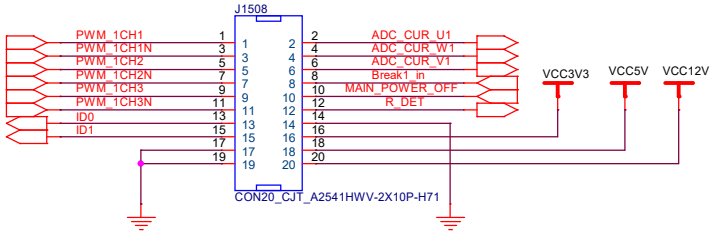
Connector to Device

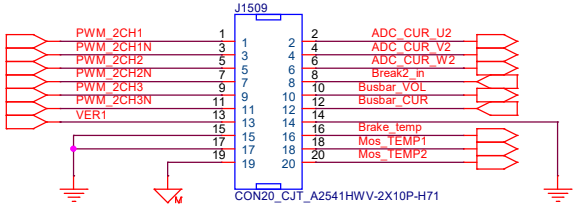
MOTOR1











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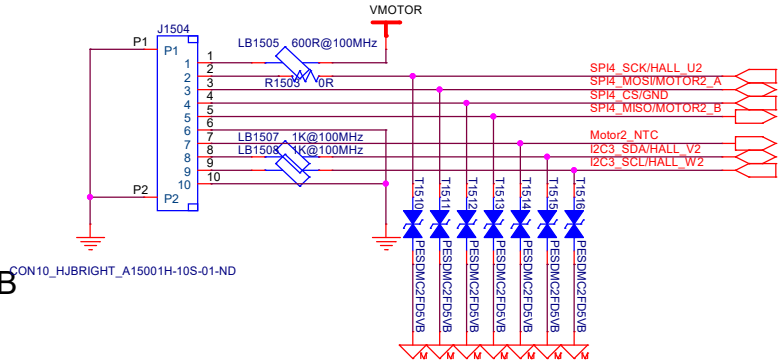

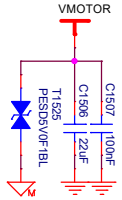

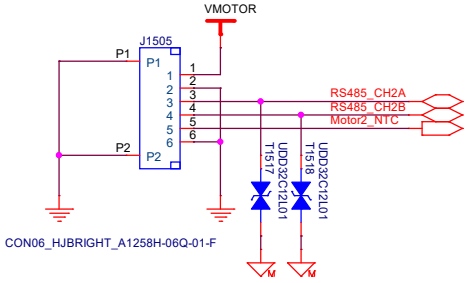

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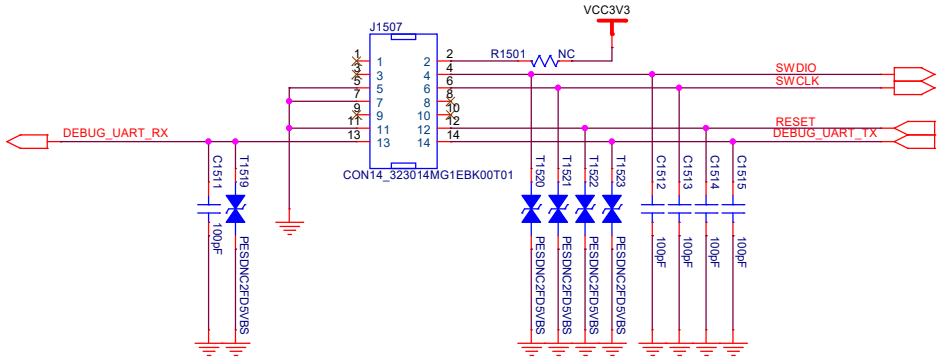

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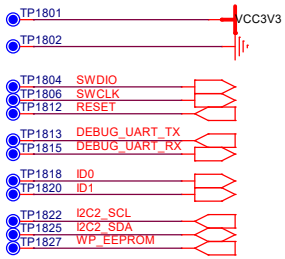
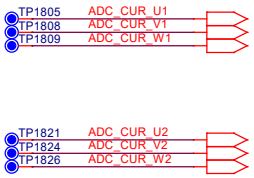
Test Point

SYSTEM

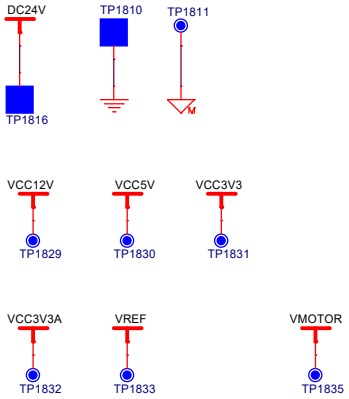


MOTOR

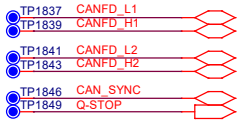
CURRENT SENSE



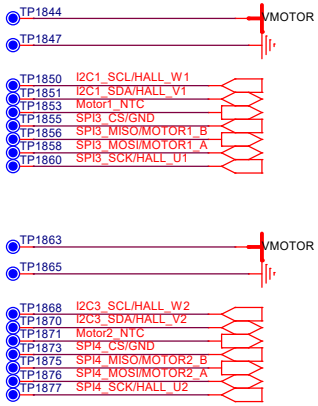
POWER



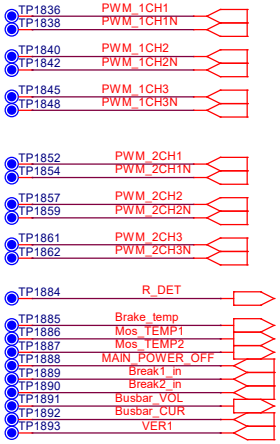
CAN



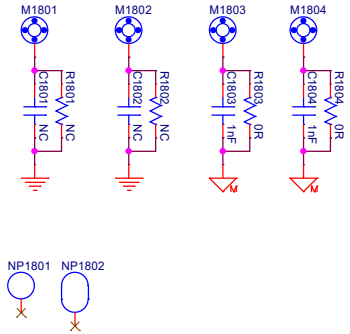
CODER



PWM



MACHINE



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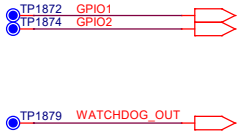

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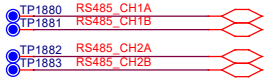

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