

A

B

C

D

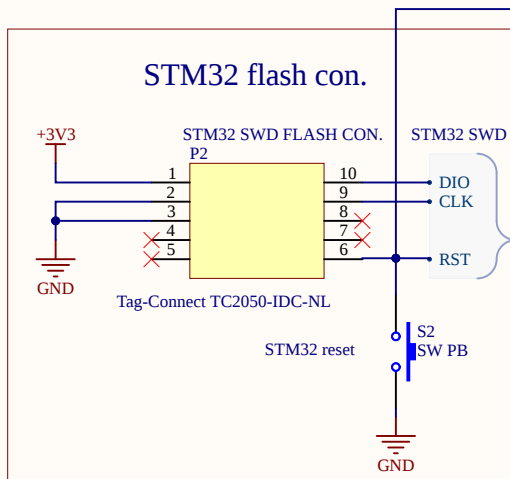
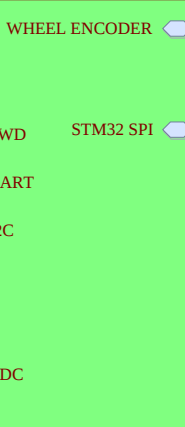
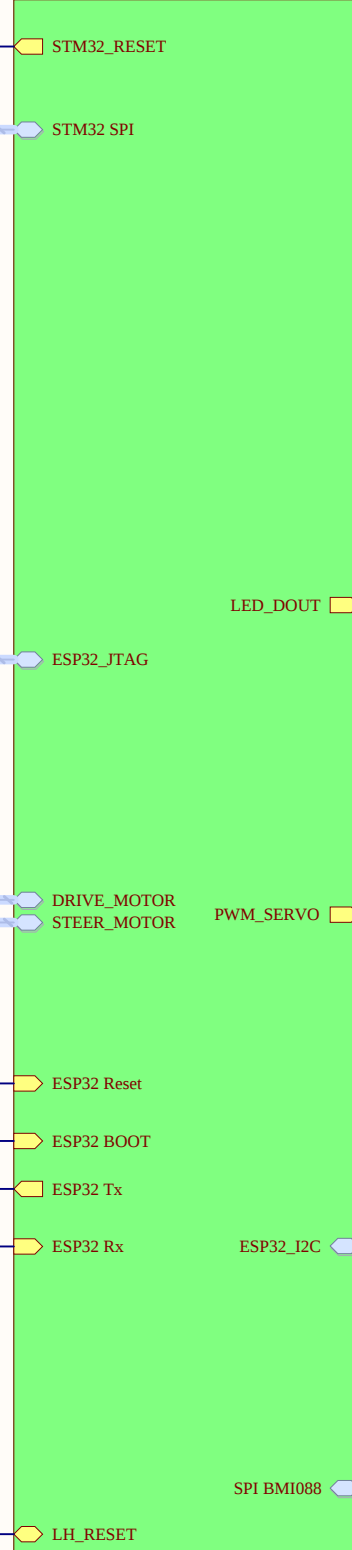
A

B

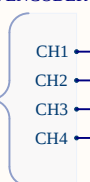
C

D

STM32 flash con.

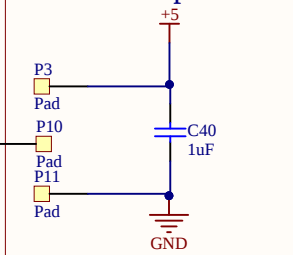
STM32.SchDoc
DesignatorMid3
ESP32.SchDoc

WHEEL ENCODER

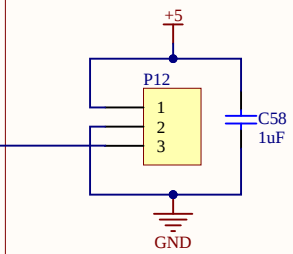


A LED strip of WS2812b can be connected here. Which can be used as headlights, blinkers or communication with other units

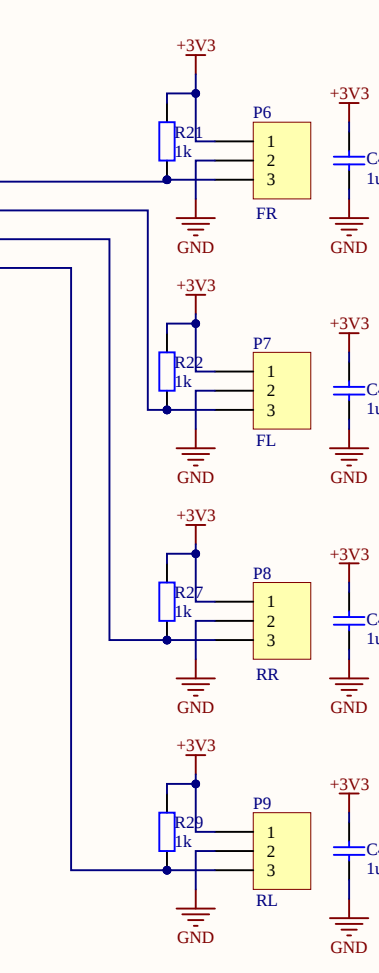
ws2812/Neopixel con.



Servo con.



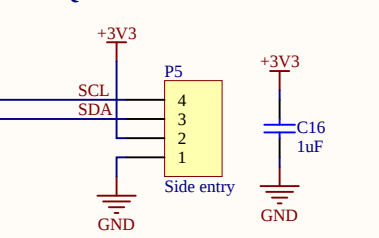
Wheel encoder Con.



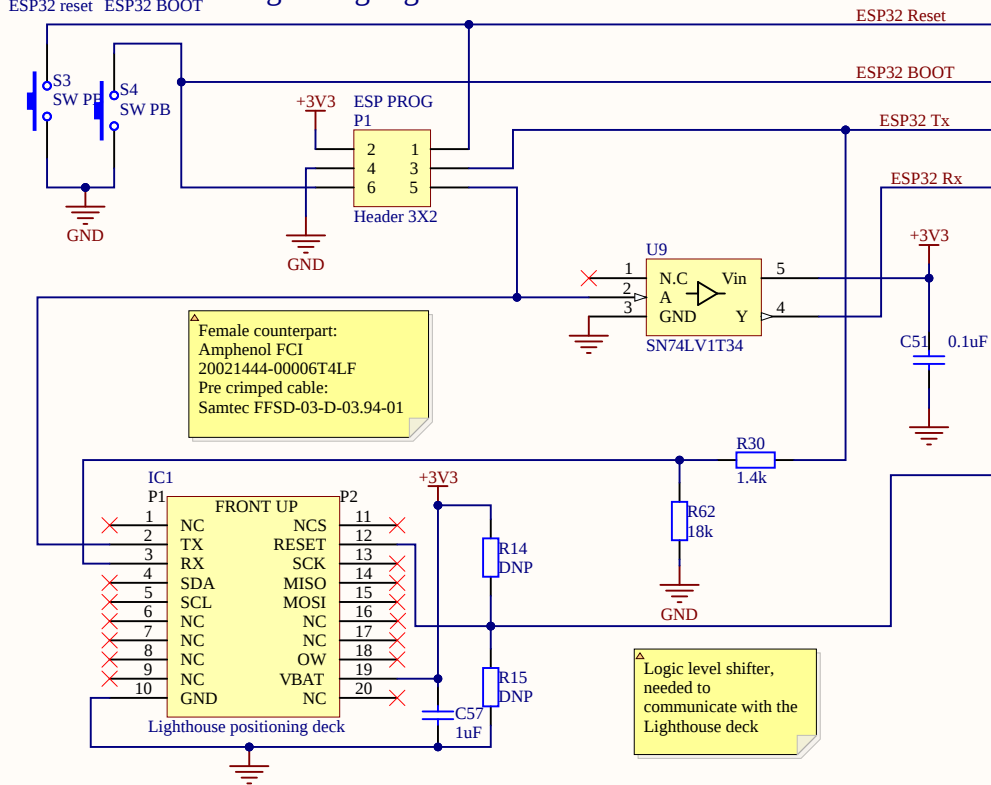
Female counterpart: JST SHR-03V-S-B
Pre crimped cable: JUMPER SSH-003T-P0.2-H X2 12"

!!!! Note the "-H". Only use the "-H" !!!!
JST offers two types of pin contacts
"SSH-003T-P0.2" and "SSH-003T-P0.2-H"

Qwiic/Stemma I2C con.



Programing/ lighthouse interface



ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Project:

CRS Car

Drawing number: 1

Rev: v.2.0

Format:

A3

Laboratory: *

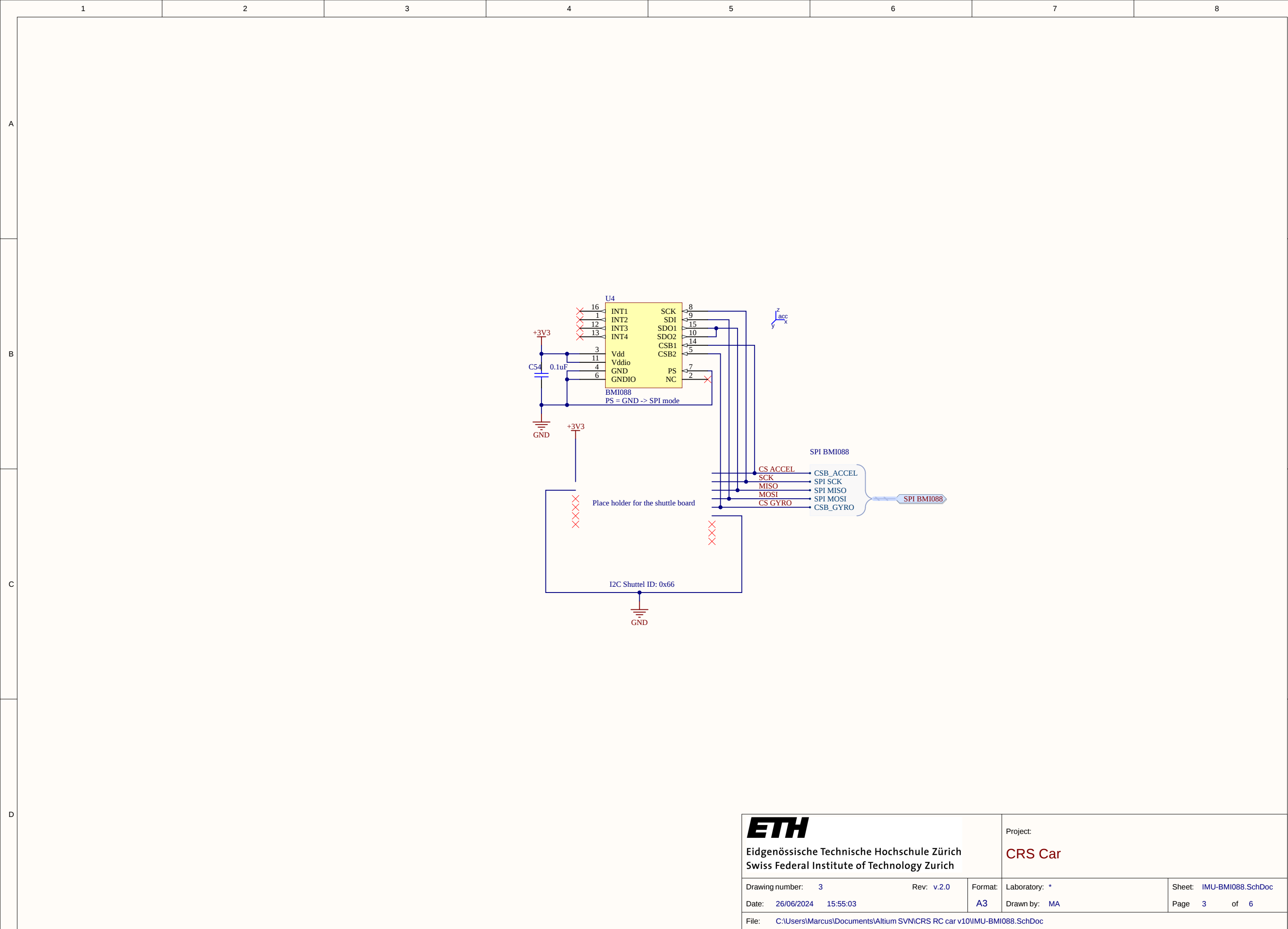
Drawn by: MA

Date: 26/06/2024 15:55:03

Sheet: Main.SchDoc

Page 1 of 6

File: C:\Users\Marcus\Documents\Altium SVN\CRS RC car v10\Main.SchDoc



A

B

C

D

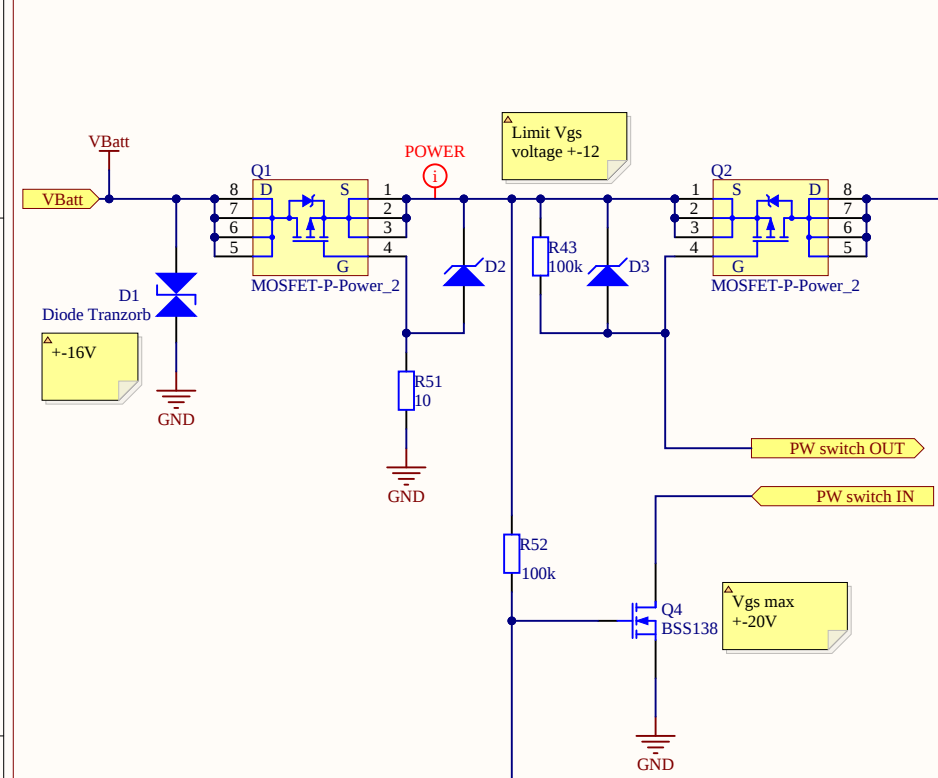
A

B

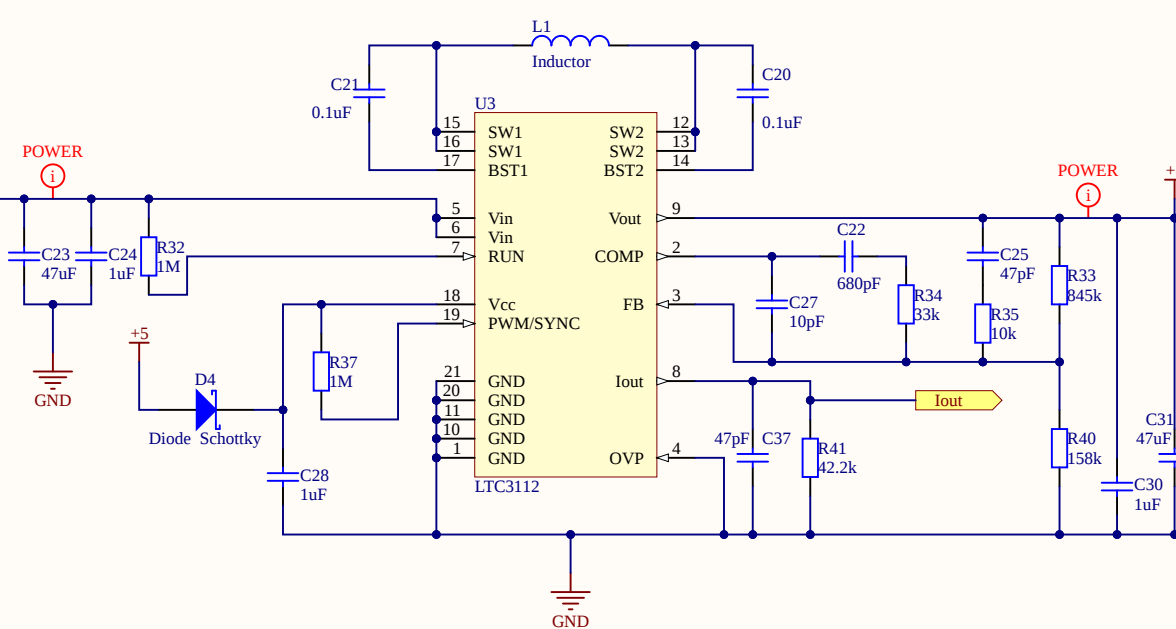
C

D

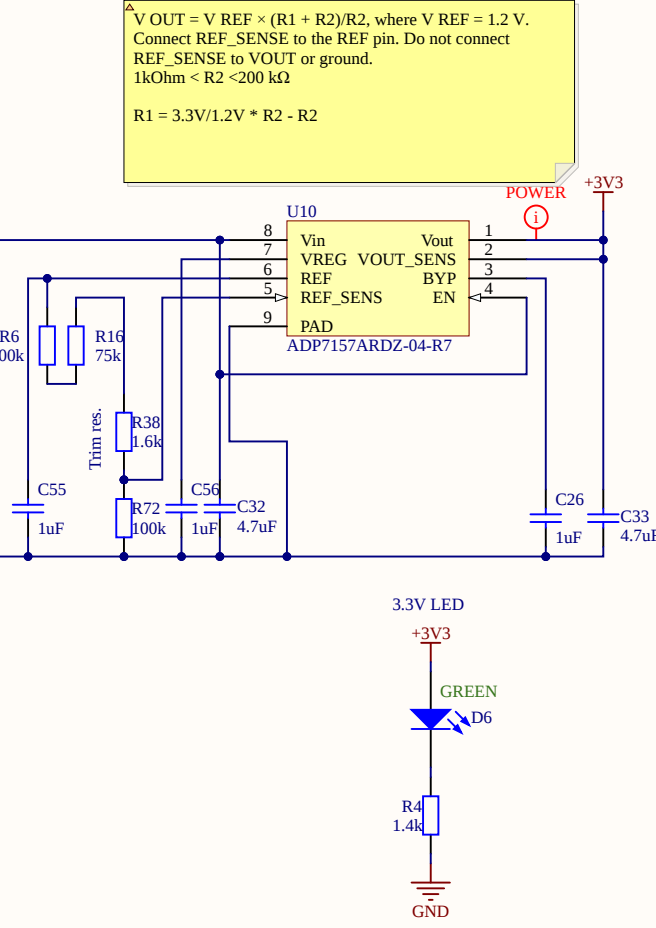
Load switch and reverse voltage protection



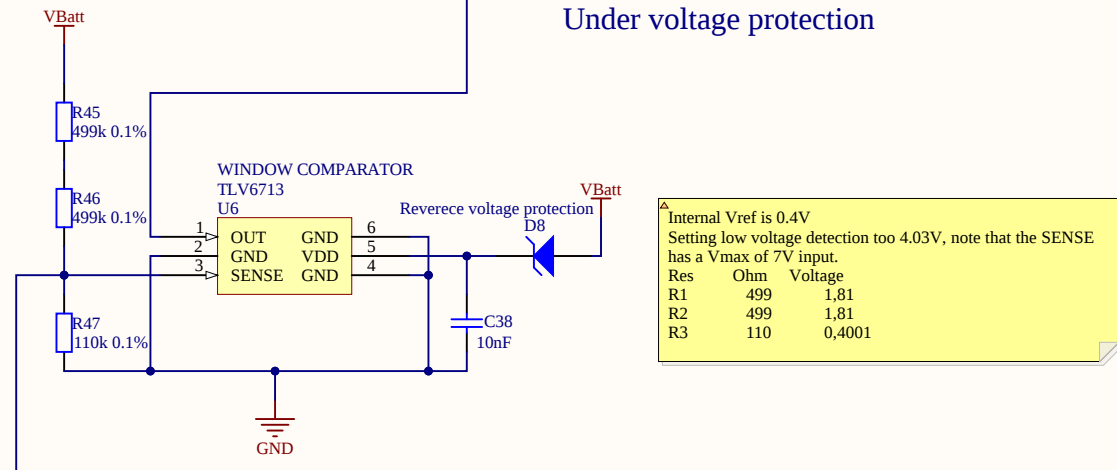
Buck/Boost converter



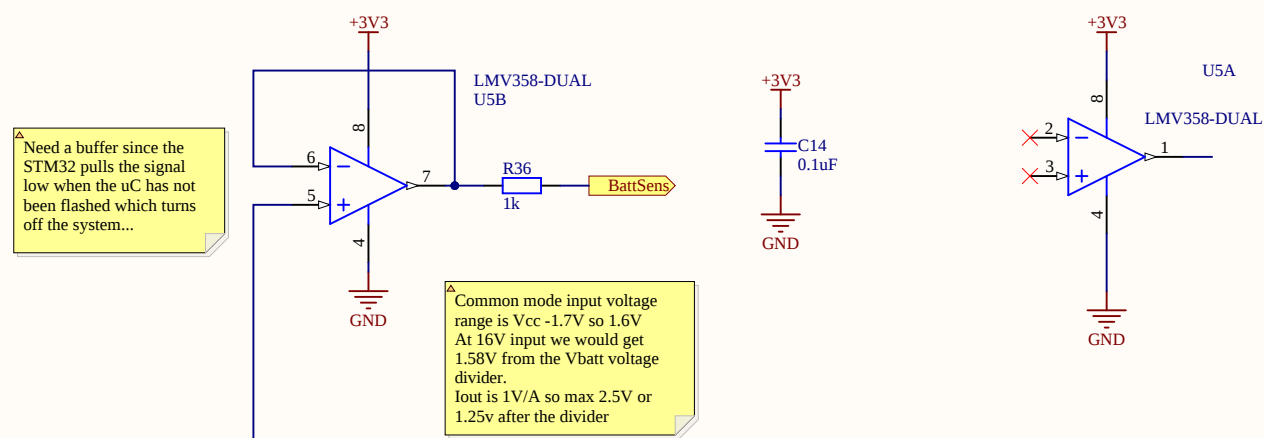
LDO



Under voltage protection



Unity gain



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Project:
CRS Car

Drawing number: 5	Rev: v.2.0	Format: A3	Laboratory: *	Sheet: Power.SchDoc
Date: 26/06/2024 15:55:03			Drawn by: MA	Page 5 of 6

File: C:\Users\Marcus\Documents\Altium SVN\CRS RC car v10\Power.SchDoc

1

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4

5

6

7

8



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Swiss Federal Institute of Technology Zurich

Project:

CRS Car

Drawing number: 6

Rev: v.2.0

Format:

Laboratory: *

Sheet: STM32.SchDoc

Date: 26/06/2024 15:55:03

A3	Drawn by: MA
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Page 6 of 6

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