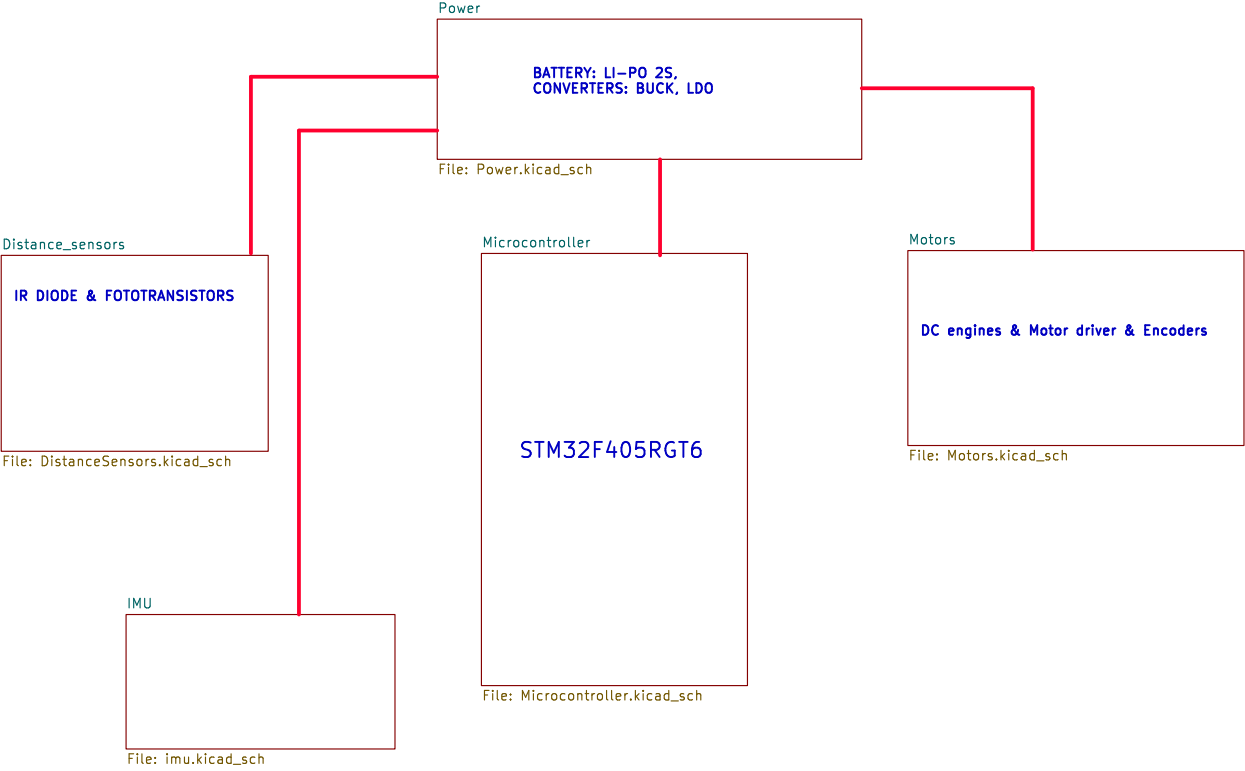


[1] Micromouse – Top level Schematic

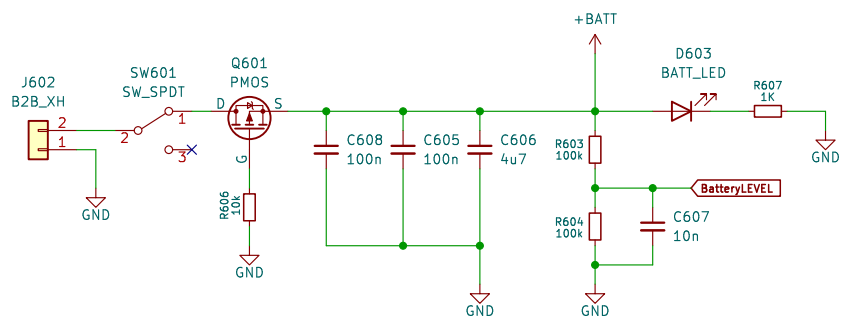


Hierarchical Sheet

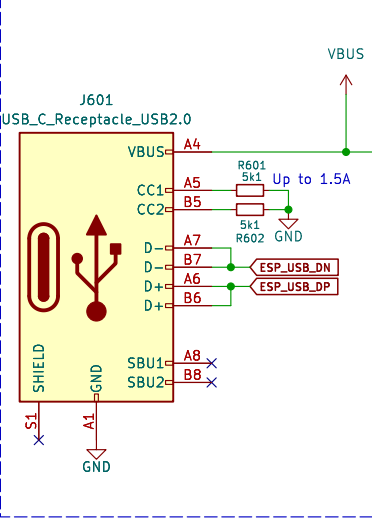
Sheet: /		
File: Micromouse.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 7.0.8		Id: 1/6

[2] POWER SUPPLY

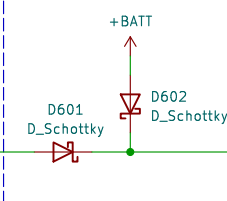
BATTERY LI PO 2S (?)



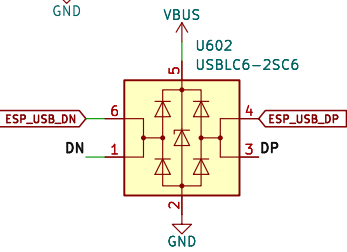
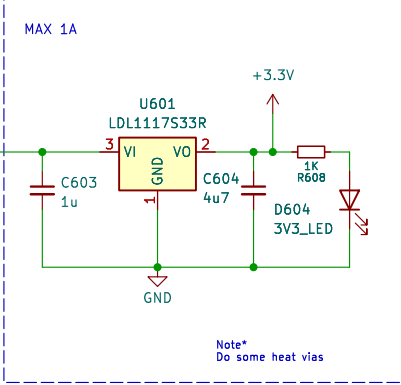
USB_C, ESP32 programmer & power supply for firmware testing



Reverse protection



PWR only for digital part



TO DO

- Sprawdzić jeszcze raz poprawność
- Dodatkowa filtracja?

Sheet: /Power/
File: Power.kicad_sch

Title:

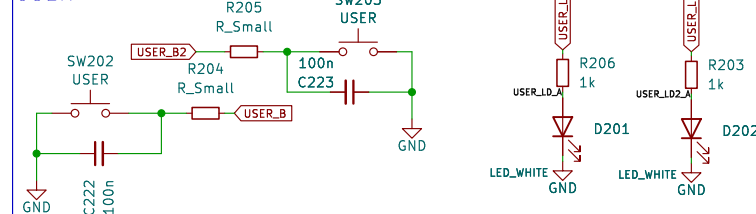
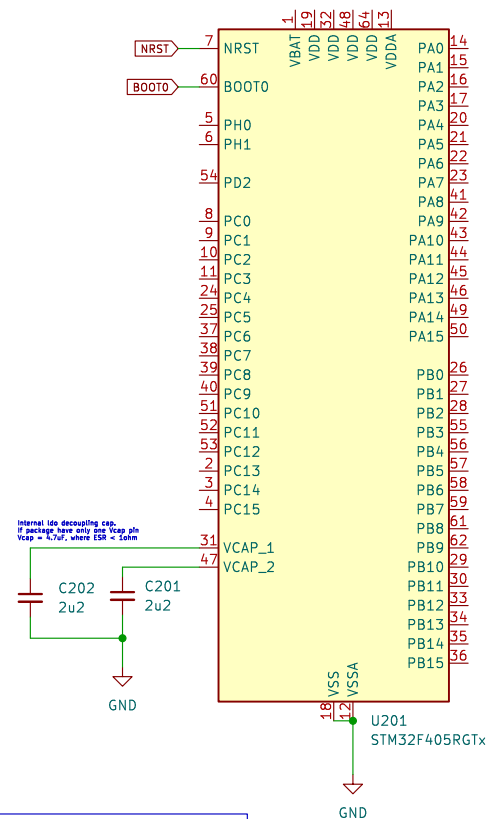
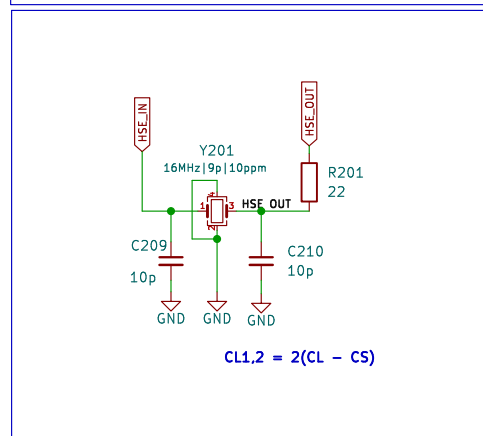
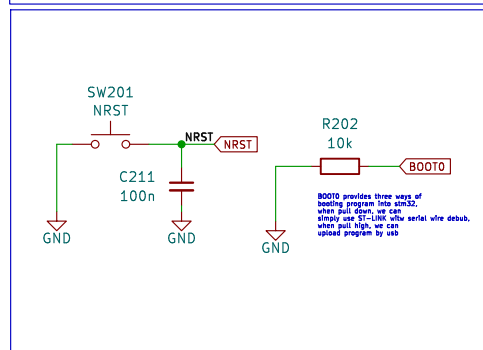
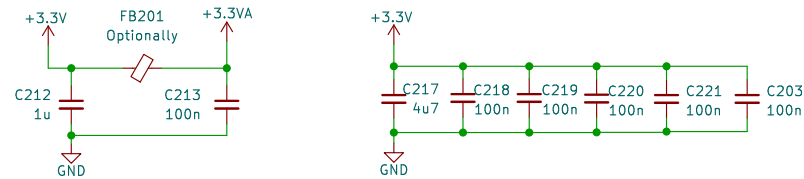
Size: User Date:
KiCad E.D.A. kicad 7.0.8

Rev:
Id: 2/6

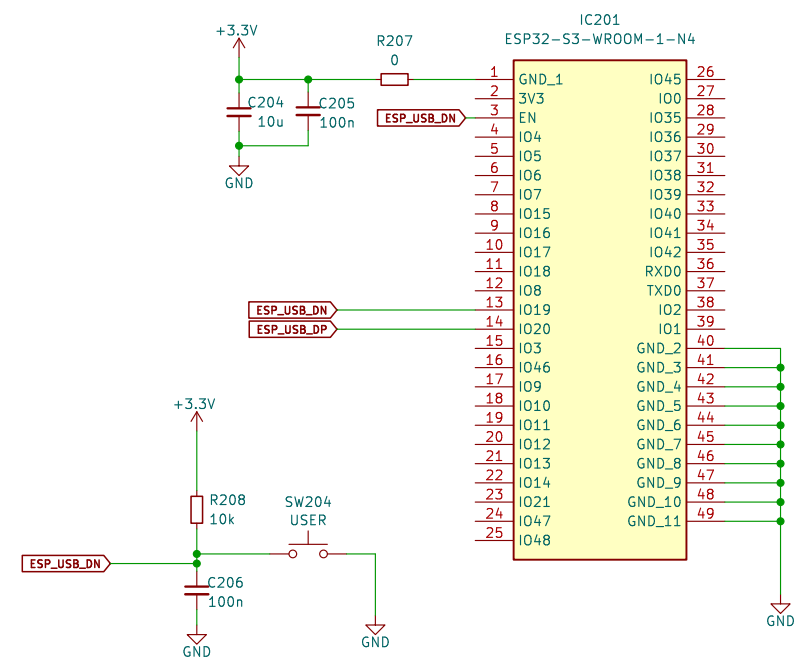
[3] Microcontroller & WIFI module

TO DO

- Zintegrować wyprowadzenia z modułami Adama?



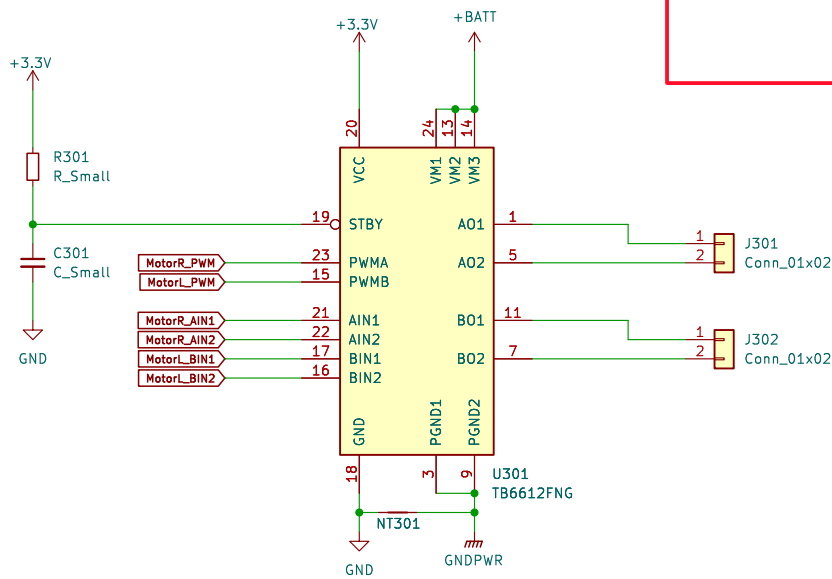
ESP32_WIFI_MODULE



[4] MOTORS

TO DO

–Dodać enkodery



Connect ground with power ground in one place

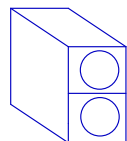
Sheet: /Motors/
File: Motors.kicad_sch

Title:

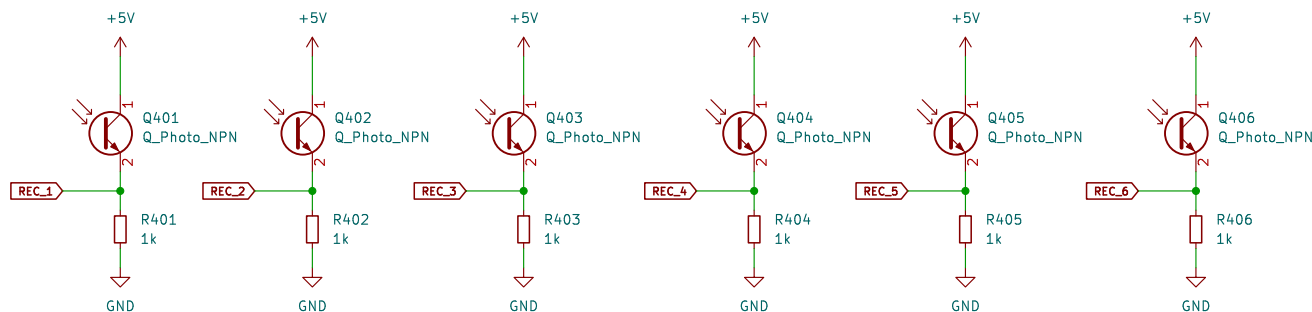
Size: User Date:
KiCad E.D.A. kicad 7.0.8

Rev:
Id: 4/6

[5] IR RECEIVERS & TRANSMITTERS

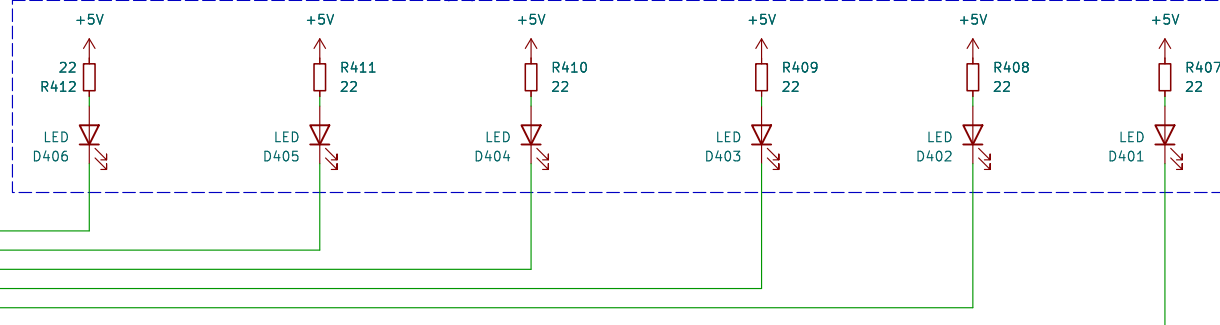


IR & Photo placed
in one case

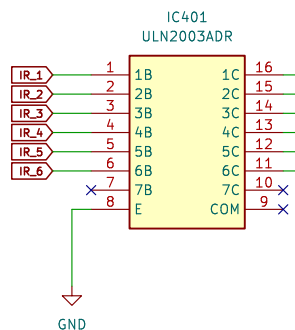


Diode max dc current = 100mA
 $I_d = 3.5V/220\Omega = 0.16A$

Power diodes only by PWM < 60%



Darlington array



up to 500mA per channel

TO DO

–Nazwać lepiej wyprowadzenia,
poprawdzić do uc

Sheet: /Distance_sensors/
File: DistanceSensors.kicad_sch

Title:

Size: A4

Date:

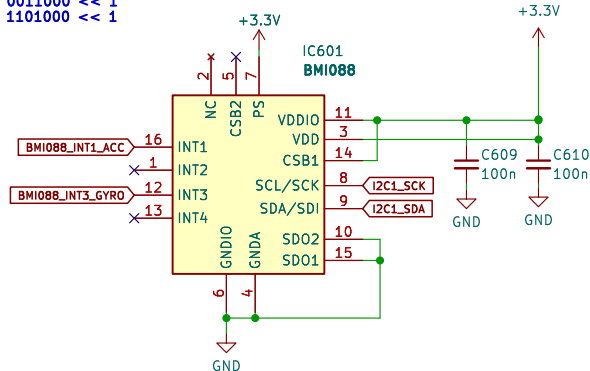
KiCad E.D.A. kicad 7.0.8

Rev:

Id: 5/6

- Jakie IMU?
BMI088 testowane sprawdza się dobrze

***Note**
BMI088 komunikuje się
przez I2C lub SPI,
wada spi w tym sensorze jest taka,
że potrzebne są dwa piny cs
jeden dla akcelerometru,
drugi dla żyroskopu

**BMI088**

Sheet: /IMU/ File: Imu.kicad_sch	
Title:	
Size: A5	Date:
KiCad E.D.A. kicad 7.0.8	Id: 6/6