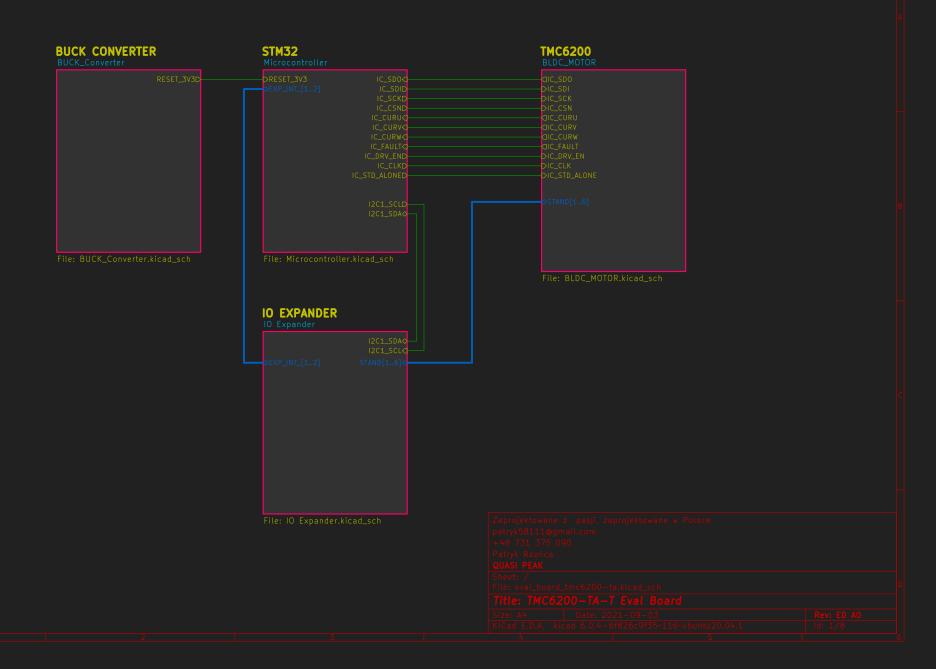
### TMC2590 Evaluation Board

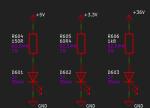


# INPUT POWER SECTION

Input connector



Power indication

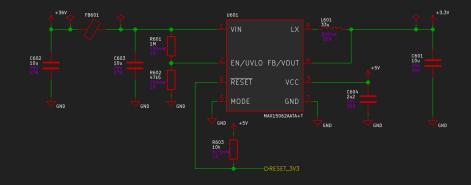


100R to get 30m/AL33R to get 30m/A

43R to get 30mA

Main DC BUCK circuit

Add fuse and reverse polarity protection



notes Zaprojektowane z p

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QUASI PEAK

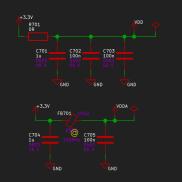
Sheet: /BUCK\_Converter/ File: BUCK\_Converter.kicad\_sch

Title: TMC6200-TA-T Eval Board

Size: A4 Date: 2021-09-03 **Rev: ED /**KICad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1 ld: 2/8

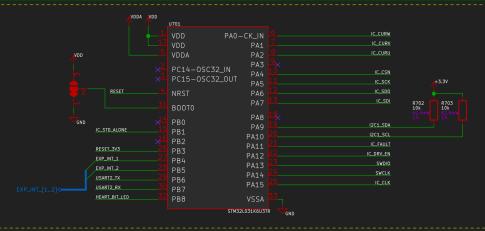
## MICROCONTROLLER, OLED DISPLAY

### Decaupling capacitors

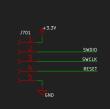


#### Hierarchical Nets

RESET_3V3D	RESET_3V3
IC_FAULT@	IC_FAULT
IC_DRV_END	IC_DRV_EN
IC_STD_ALONED	IC_STD_ALONE
IC_CSNQ	IC_CSN
IC_SCK4	IC_SCK
IC_SDIG	IC_SDI
IC_SDOD	IC_SDO
	IC_CURU
IC_CURUCI	IC_CURU IC_CURV
	IC_CURV
	IC_CURV IC_CURW
	IC_CURV
IC_CURV() IC_CURW() IC_CLKD	IC_CURV IC_CURW
IC_CURVO IC_CURVO IC_CLKD	IC_CURY IC_CURW IC_CLK
IC_CURVO IC_CURWO IC_CLKD I2C1_SDA I2C1_SCLO	IC_CURV IC_CURW IC_CLK I2C1_SDA I2C1_SCL
IC_CURVO IC_CURVO IC_CLKD	IC_CURV IC_CURW IC_CLK I2C1_SDA



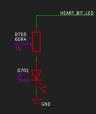
#### Reset Circuit with Programming Connector











### Mounting Holes



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QUASI PEAK

Sheet: /Microcontroller/ File: Microcontroller.kicad\_sch

#### Title: TMC6200-TA-T Eval Boar

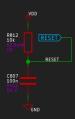
Size: A4 Date: 2021-09-03 KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubi Rev: ED AC

# IO EXPANDER

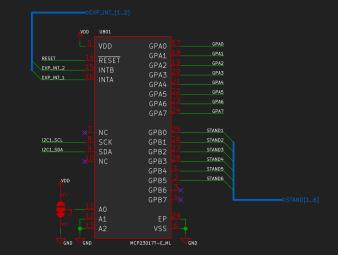
### Decaupling capacitors



Reset circuit



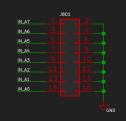
#### 10 Expander



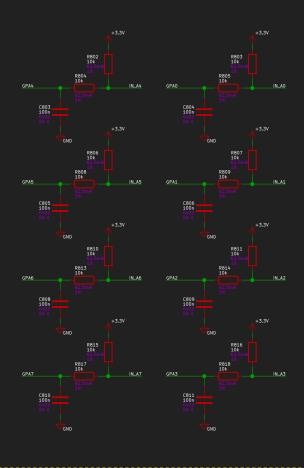
#### Outnut harness

12C1 SCL<	1201_9
12C1_SDA	1201_5
	EXP_IN
EXP_INT_ACI	EXP INT

#### Output connector



Input filter with pull-up resistors



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Patryk Kzonic

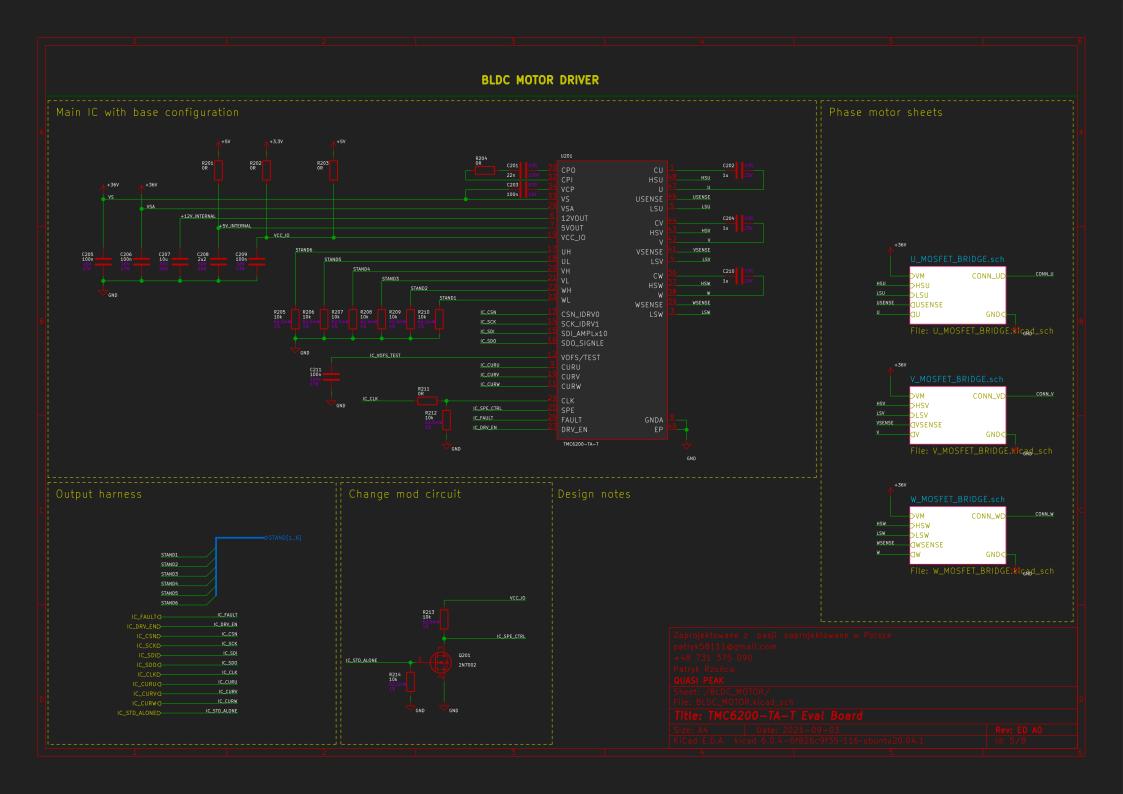
Shoots /IO Eve

Sheet: /IU Expander/ File: IO Expander,kicad so

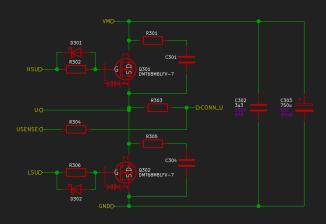
Title: TMC6200-TA-T Eval Board

Size: A4 Date: 2021-09-03

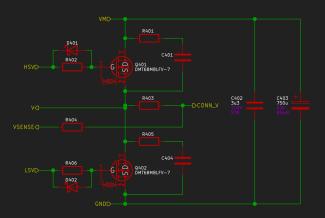
iCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1 ld: 4



# PHASE U



# PHASE V



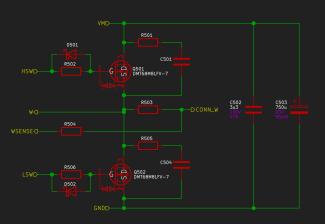
Zaprojektowane z pasji, zaprojektowane w Polsc patryk58111@gmail.com +48 731 375 090 Patryk Pzońca

QUASI PEAK

Sheet; /BLDC\_MOTOR/V\_MOSFET\_BRIDGE.sch/ File: V\_MOSFET\_BRIDGE.kicad\_sch

Title: TMC6200-TA-T Eval Board

# PHASE W



 Size: A4
 Date: 2021-09-03
 Rev: ED AC

 KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1
 Id: #/8