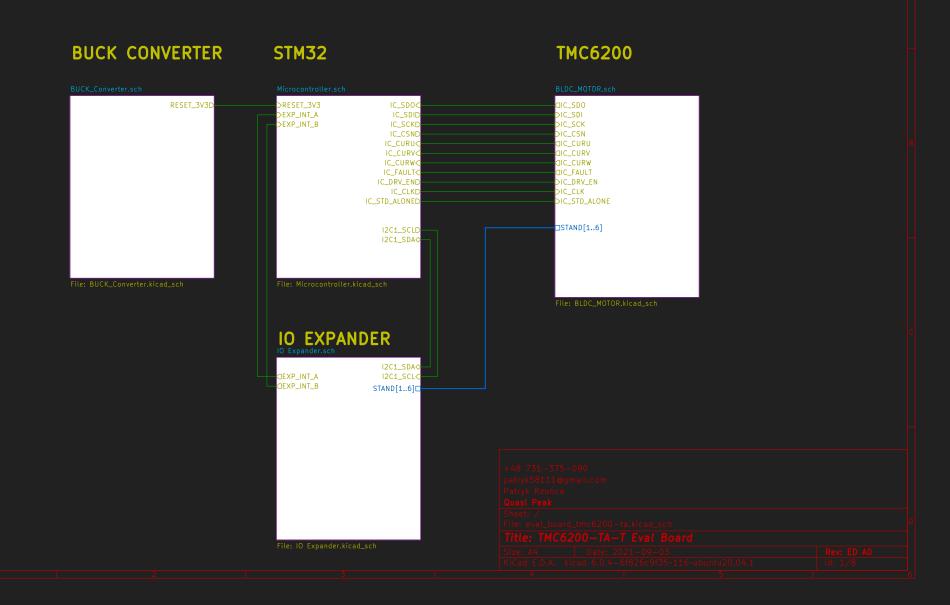
TMC2590 Evaluation Board

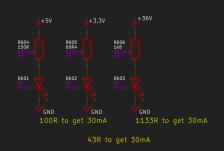


INPUT POWER SECTION

Input connector

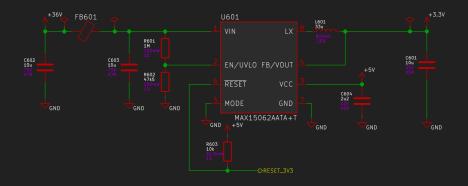


Power indicatior



Main DC BUCK circuit

Add fuse and reverse polarity protection



Design notes

Quasi Pea

Sheet: /BUCK_Converter.sch/ File: BUCK_Converter.kicad_scl

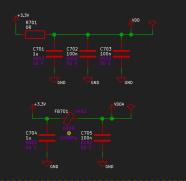
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Size: A4 Date: 2021-09-0

intu20.04.1 ld: 2/8

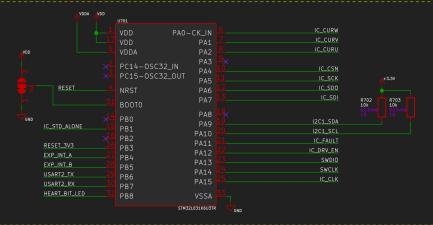
MICROCONTROLLER, OLED DISPLAY

Decaupling capacitors



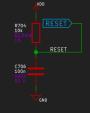
Hierarchical Nets

RESET_3V3D-	RESET_3V3
IC FAULTCI	IC_FAULT
IC DRV END	IC_DRV_EN
IC_STD_ALONED	IC_STD_ALONE
IC CSNCI-	IC_CSN
IC_SCK<	IC_SCK
IC_SDIC	IC_SDI
IC SDOD	IC_SDO
10_3000	
IC_CURU⊲	IC_CURU
IC_CURV<	IC_CURV
IC CURW	IC_CURW
IC CLKD-	IC_CLK
	1364 684
I2C1_SDA♦-	I2C1_SDA
I2C1_SCL<	I2C1_SCL
EXP_INT_AD	EXP_INT_A
EXP_INT_BD	EXP_INT_B



Reset Circuit with Programming Connector











Mounting Holes



Patryk Rzońc

Sheet /Mic

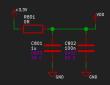
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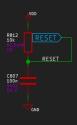
Rev: ED A

IO EXPANDER

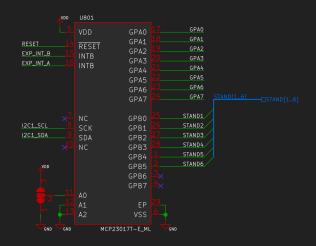
Decaupling capacitors



Reset circuit



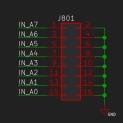
10 Expander



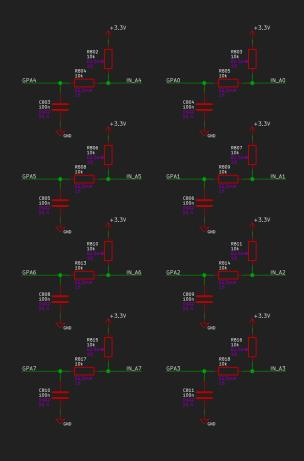
Output harness

I2C1 SCL<	12C1_5
I2C1_SDA	12C1_S
EXP_INT_ACI	EXP_INT
EXP_INT_AC	EXP_INT

Output connector



Input filter with pull—up resistors



Quasi Peak

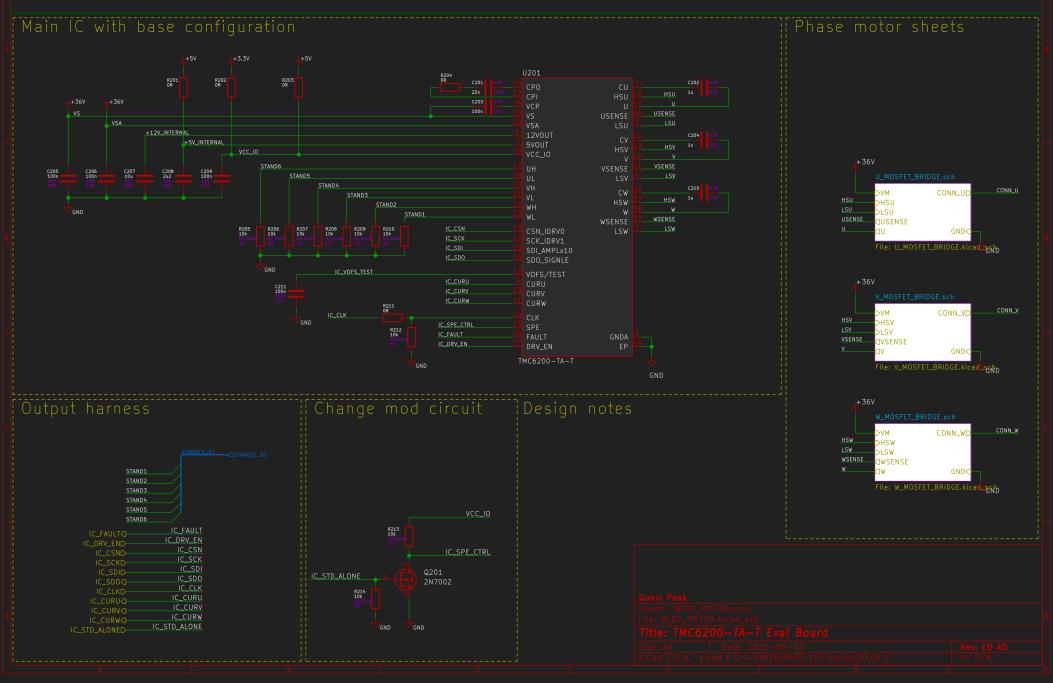
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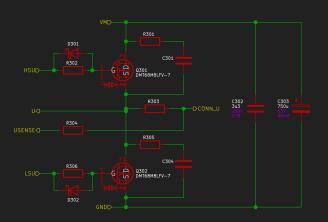
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 Date: 2021-09-03
 Rev: ED

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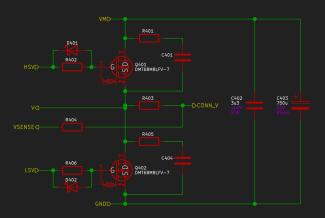
BLDC MOTOR DRIVER



PHASE U



PHASE V



PHASE W

