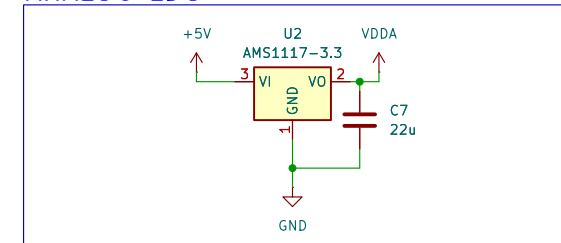
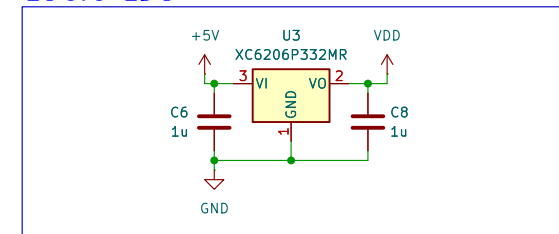


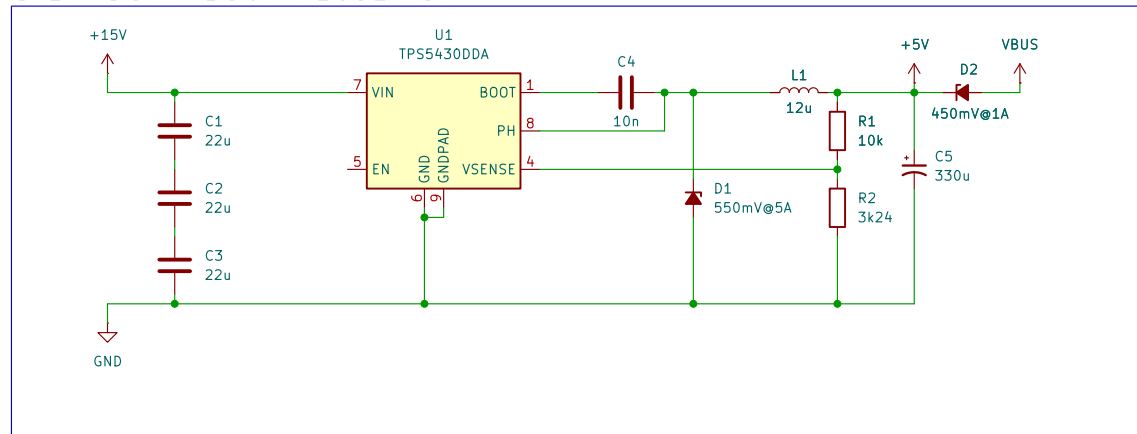
ANALOG LDO



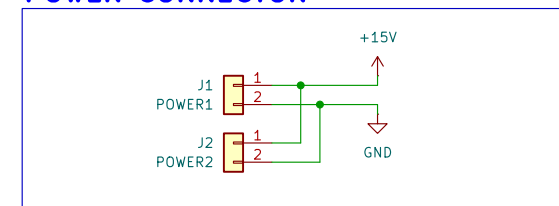
LOGIC LDO



STEP-DOWN BUCK REGULATOR



POWER CONNECTOR



Toid FOC Controller

Robotoid

Author: Petar Vukotić

File: STM32G474_FOC_CONTROLLER.kicad_sch

Date: 2026-05-17

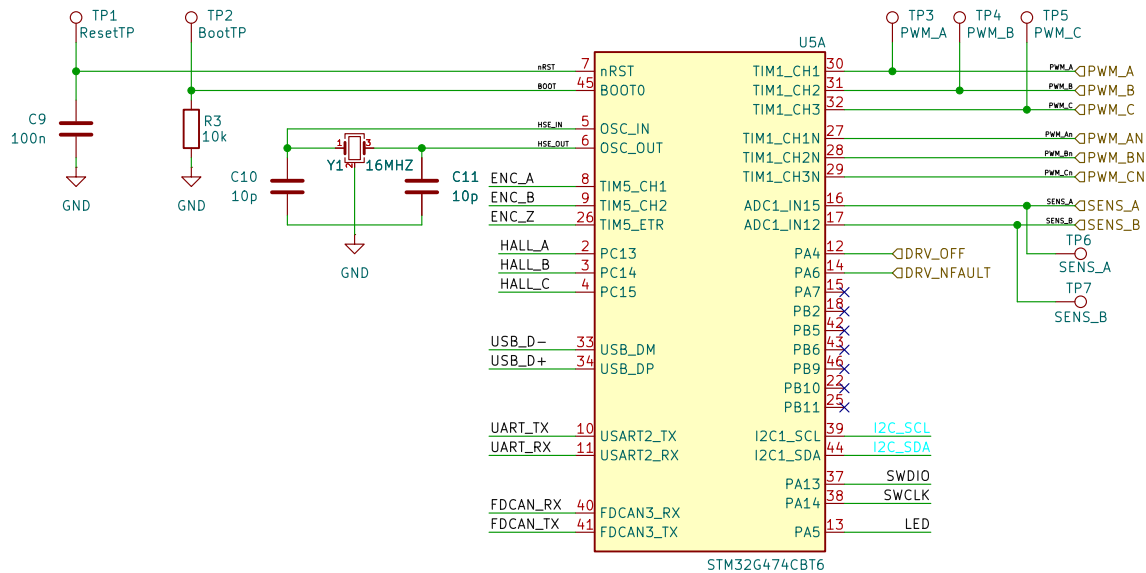


KiCad E.D.A. 10.0.4

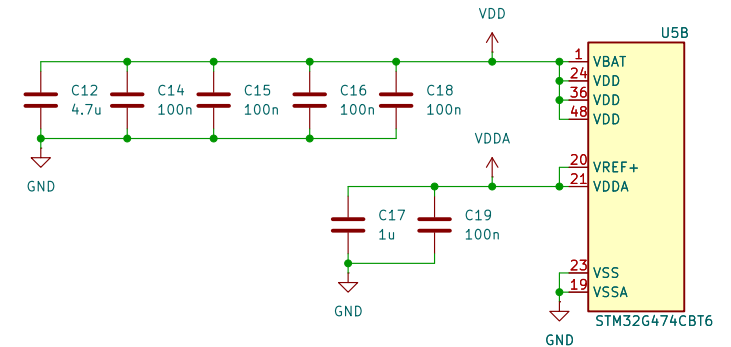
Rev: 1.0

Page: 1/4

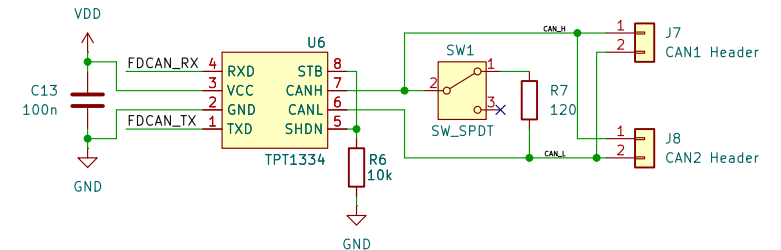
MCU IO



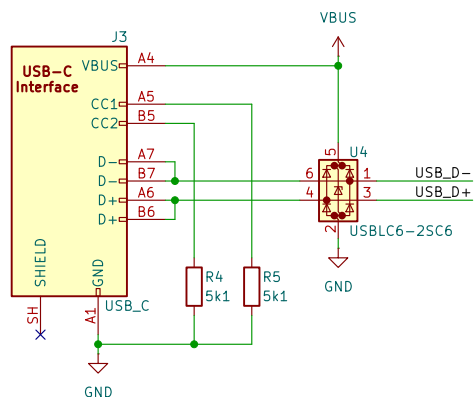
MCU DECOUPLING



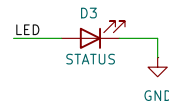
CAN INTERFACE



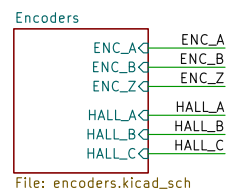
USB INTERFACE



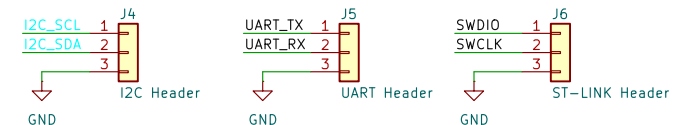
STATUS LED



ENCODERS



IO INTERFACES



Toid FOC Controller

Robotoid

Author: Petar Vukotić

File: MCU.kicad_sch

Date: 2026-05-17

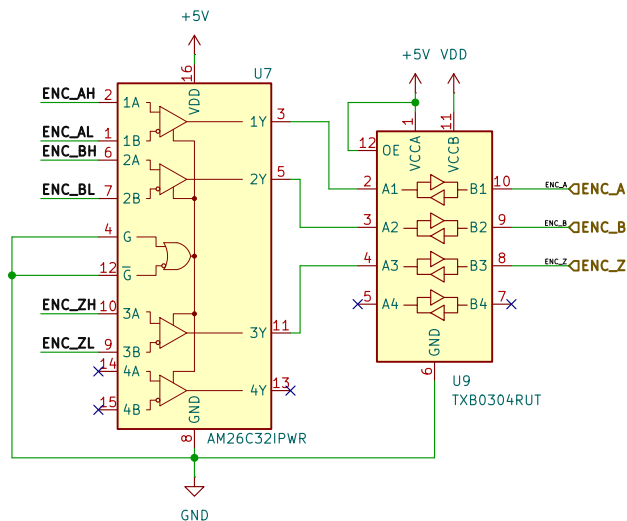


KiCad E.D.A. 10.0.4

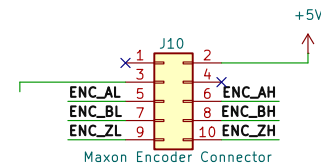
Rev: 1.0

Page: 2/4

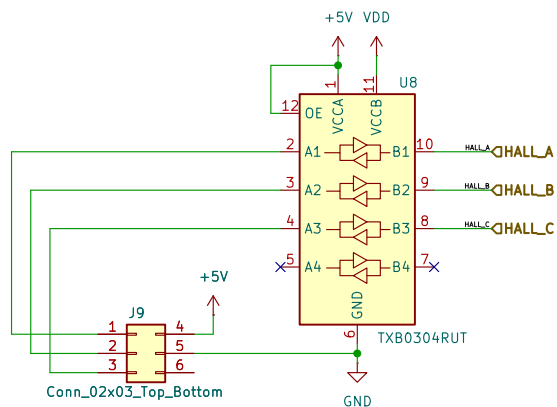
INC ENCODER LEVEL SHIFTING



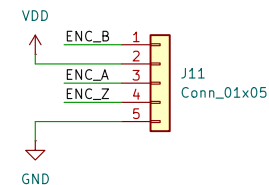
5V INC ENCODER CONNECTOR



HALL ENCODER



3V3 INC ENCODER CONNECTOR



Toid FOC Controller

Robotoid

Author: Petar Vukotić

File: encoders.kicad_sch

Date: 2026-05-17

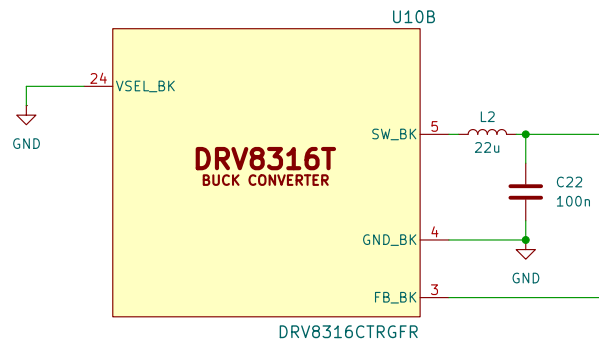


KiCad E.D.A. 10.0.4

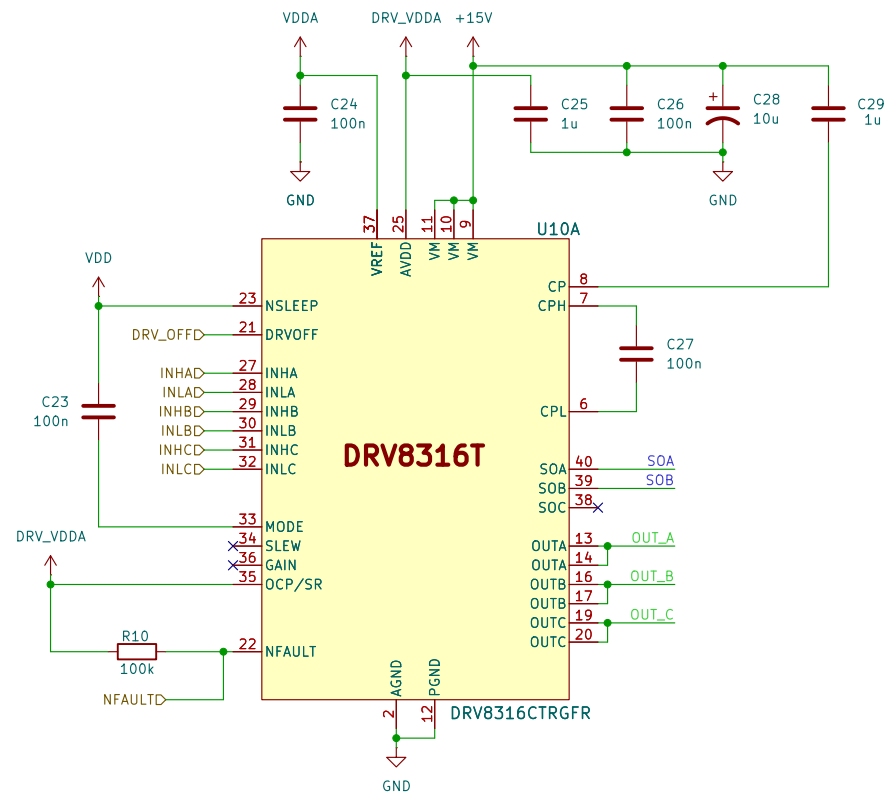
Rev: 1.0

Page: 3/4

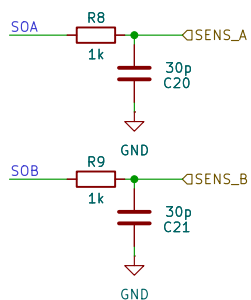
INTEGRATED BUCK CONVERTER



POWER & IO



CURRENT SENSE FILTERS



MOTOR OUTPUT



Toid FOC Controller

Robotoid

Author: Petar Vukotić

File: drv8316.kicad_sch

Date: 2026-05-17



KiCad E.D.A. 10.0.4

Rev: 1.0

Page: 4/4