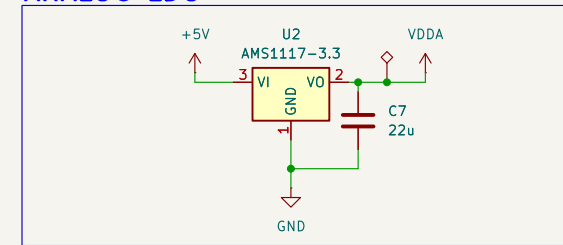
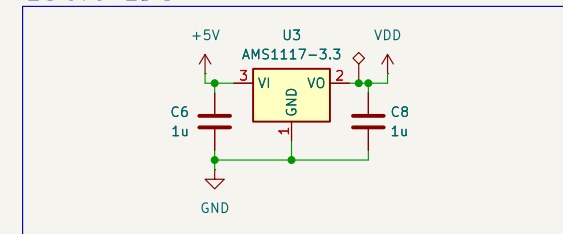


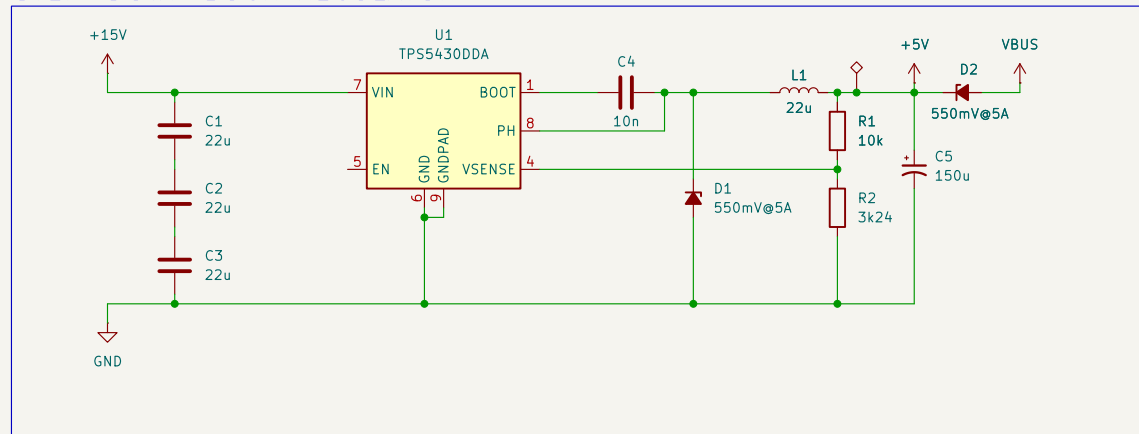
ANALOG LDO



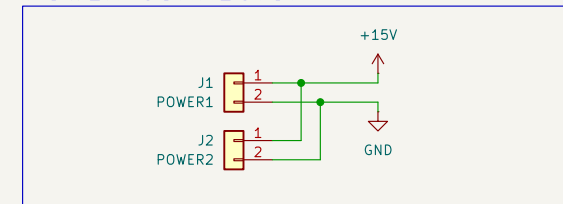
LOGIC LDO



STEP-DOWN BUCK REGULATOR



POWER CONNECTOR



Toid FOC Controller

Robotoid

Author: Petar Vukotić

File: STM32G474_FOC_CONTROLLER.kicad_sch

Date: 2026-05-17

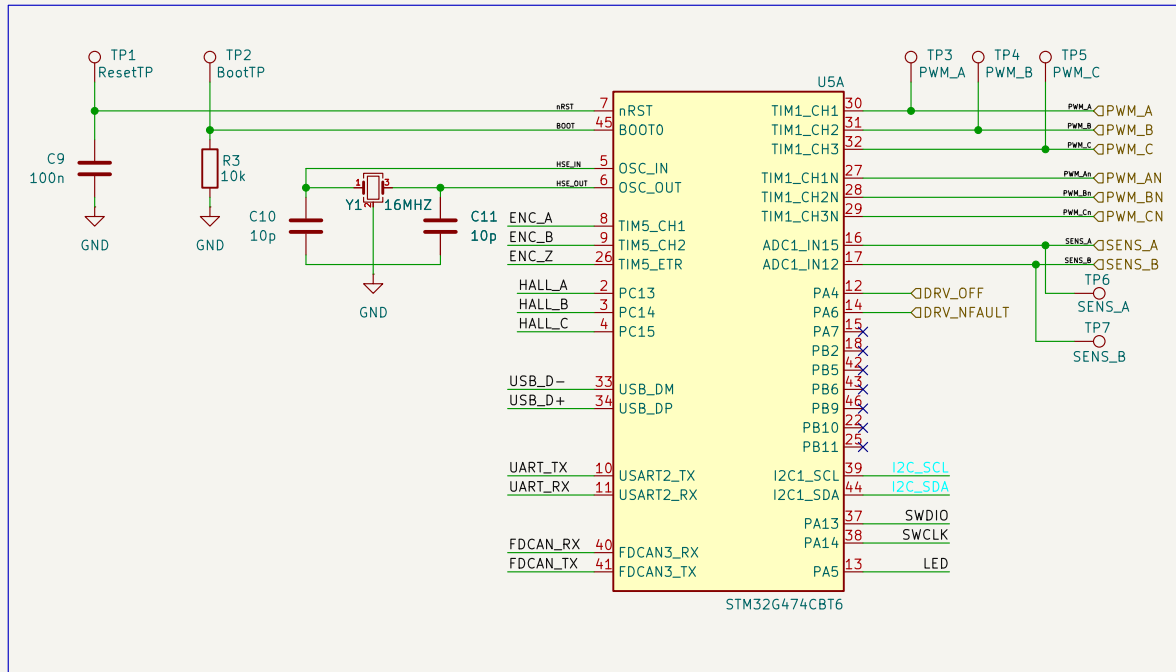


KiCad E.D.A. 10.0.4

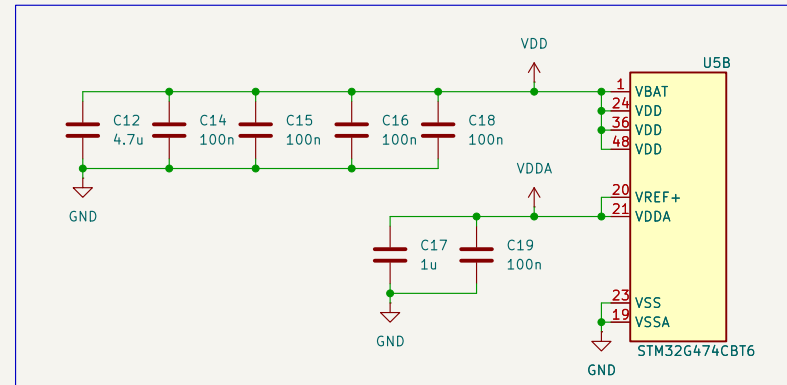
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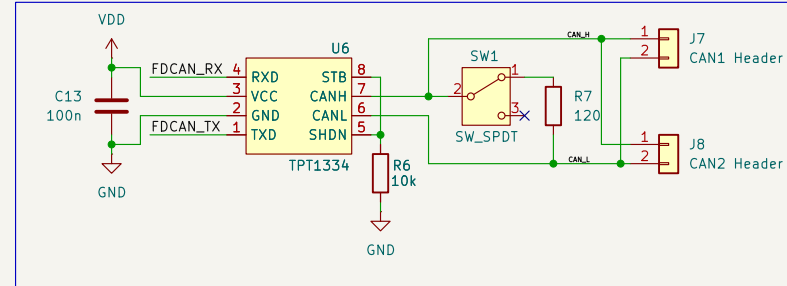
MCU IO



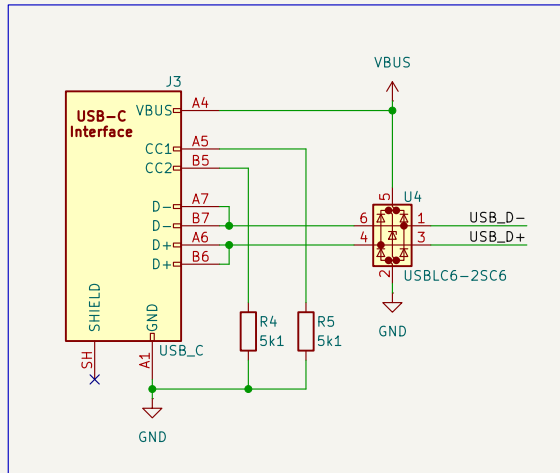
MCU DECOUPLING



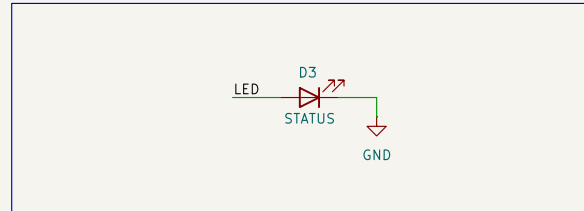
CAN INTERFACE



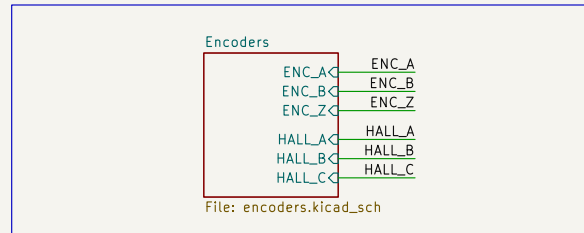
USB INTERFACE



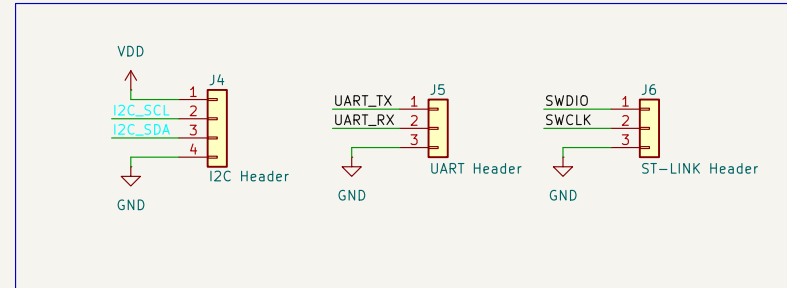
STATUS LED



ENCODERS



IO INTERFACES



Toid FOC Controller

Robotoid

Author: Petar Vukotić

File: MCU.kicad_sch

Date: 2026-05-17

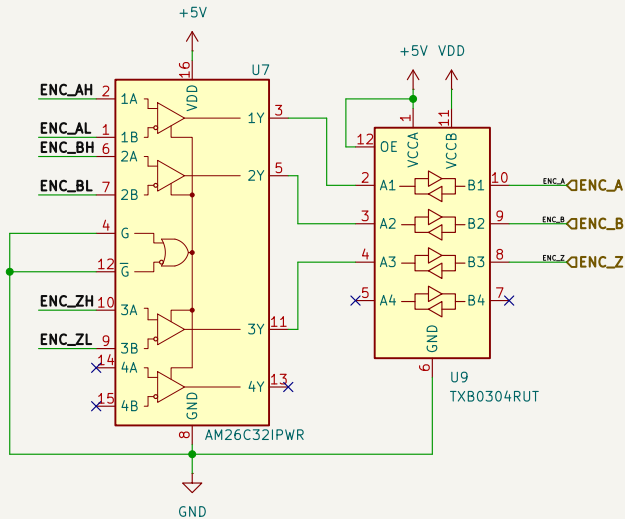


KiCad E.D.A. 10.0.4

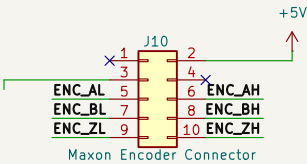
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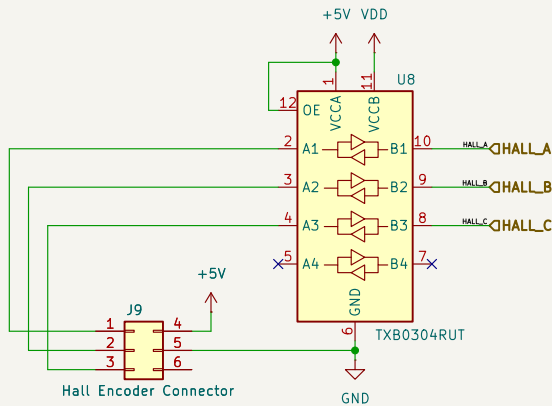
INC ENCODER LEVEL SHIFTING



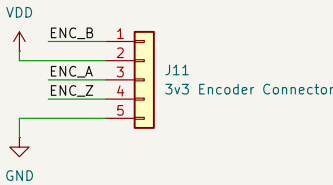
5V INC ENCODER CONNECTOR



HALL ENCODER



3V3 INC ENCODER CONNECTOR



Toid FOC Controller

Robotoid

Author: Petar Vukotić

File: encoders.kicad_sch

Date: 2026-05-17

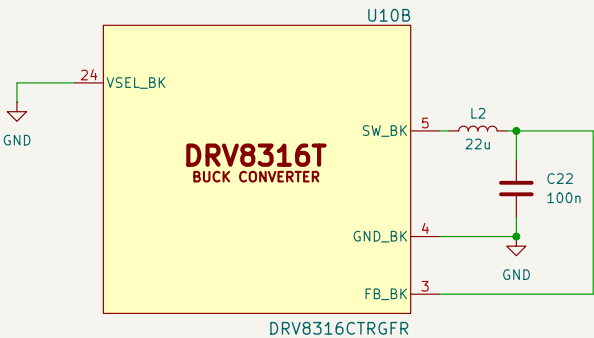


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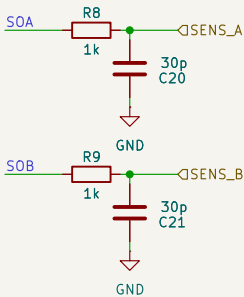
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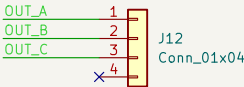
INTEGRATED BUCK CONVERTER



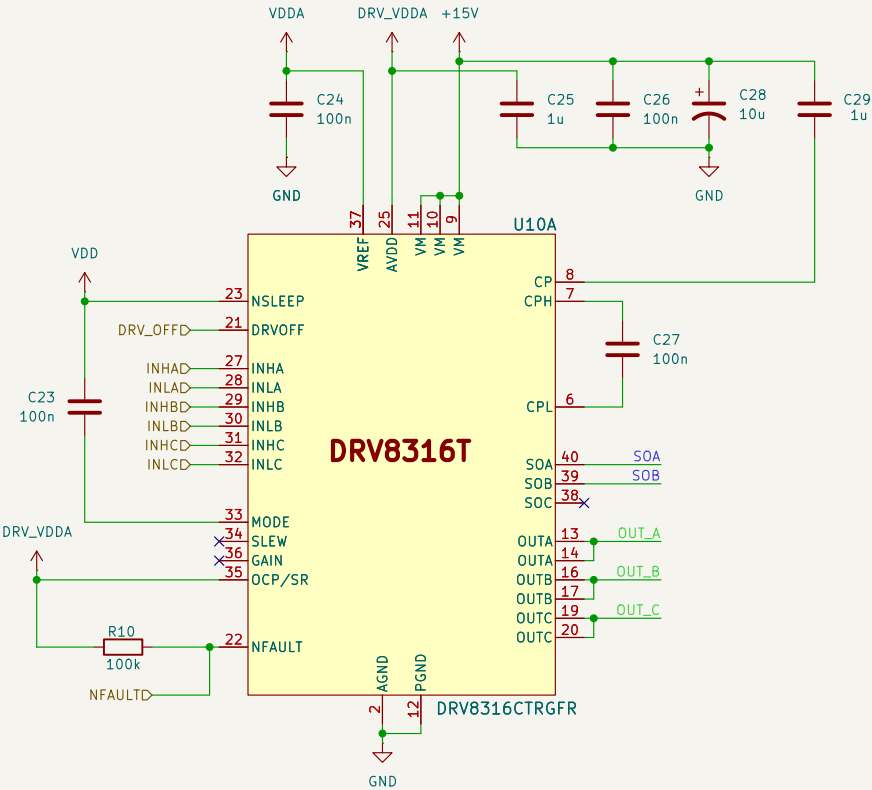
CURRENT SENSE FILTERS



MOTOR OUTPUT



POWER & IO



Toid FOC Controller

Robotoid

Author: Petar Vukotić

File: drv8316.kicad_sch

Date: 2026-05-17



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Rev: 1.0

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