

Avionics



File: Avionics.kicad_sch

Connectors



File: Connectors.kicad_sch

Power



File: Power.kicad_sch

Motors



File: motor_driver.kicad_sch

Watchdog



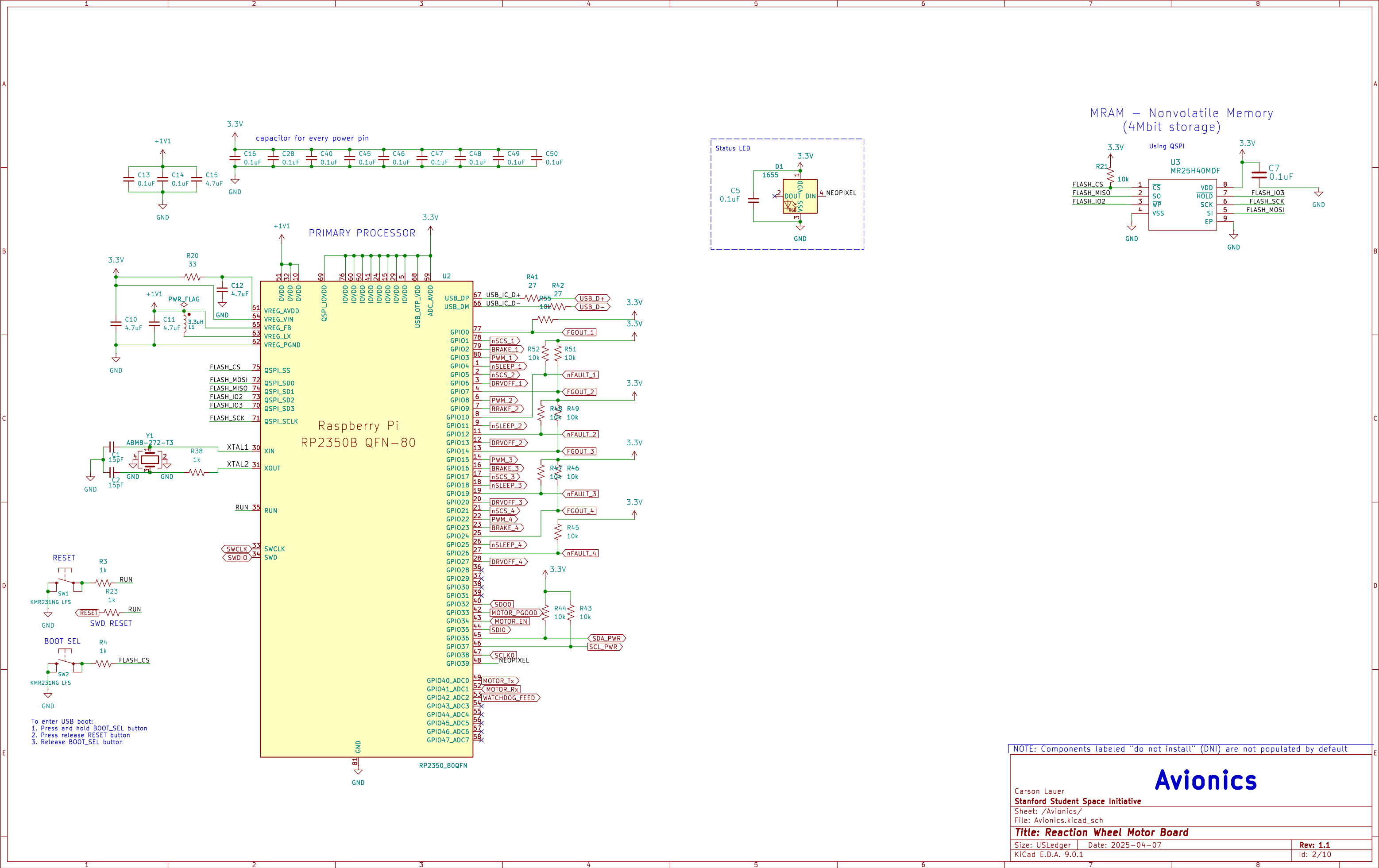
File: watchdog.kicad_sch

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Stanford Student Space Initiative

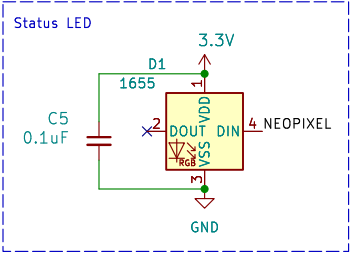
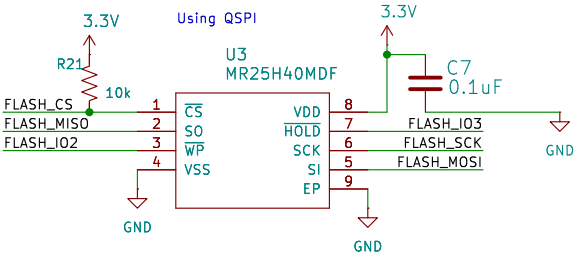
Sheet: /
File: motor_board.kicad_sch

Title: Reaction Wheel Motor Board

Size: A4	Date: 2025-04-07	Rev: 1.1
KiCad E.D.A. 9.0.1		Id: 1/10



MRAM – Nonvolatile Memory
(4Mbit storage)



NOTE: Components labeled "do not install" (DNI) are not populated by default

Avionics

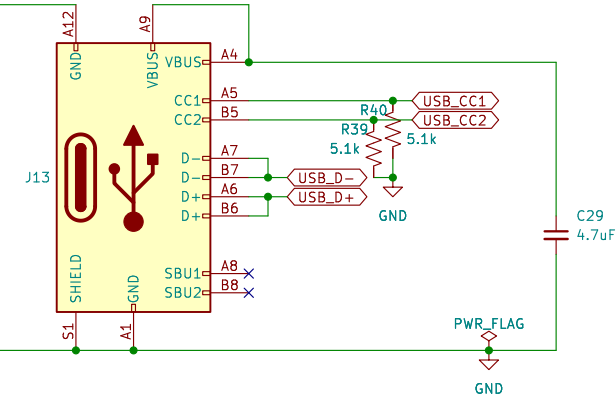
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Sheet: /Avionics/
File: Avionics.kicad_sch

Title: Reaction Wheel Motor Board

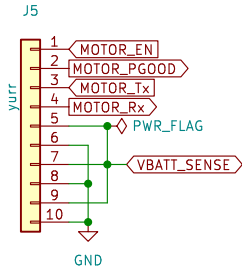
Size: USLedger | Date: 2025-04-07
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Rev: 1.1
Id: 2/10

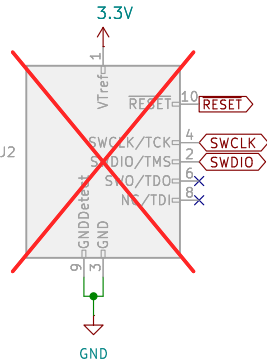
Power Connectors: USB-C Power Delivery to 2S Li-ion Battery



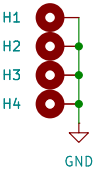
ADCS



SWD



Mounting Holes



NOTE: Components labeled "do not install" (DNI) are not populated by default

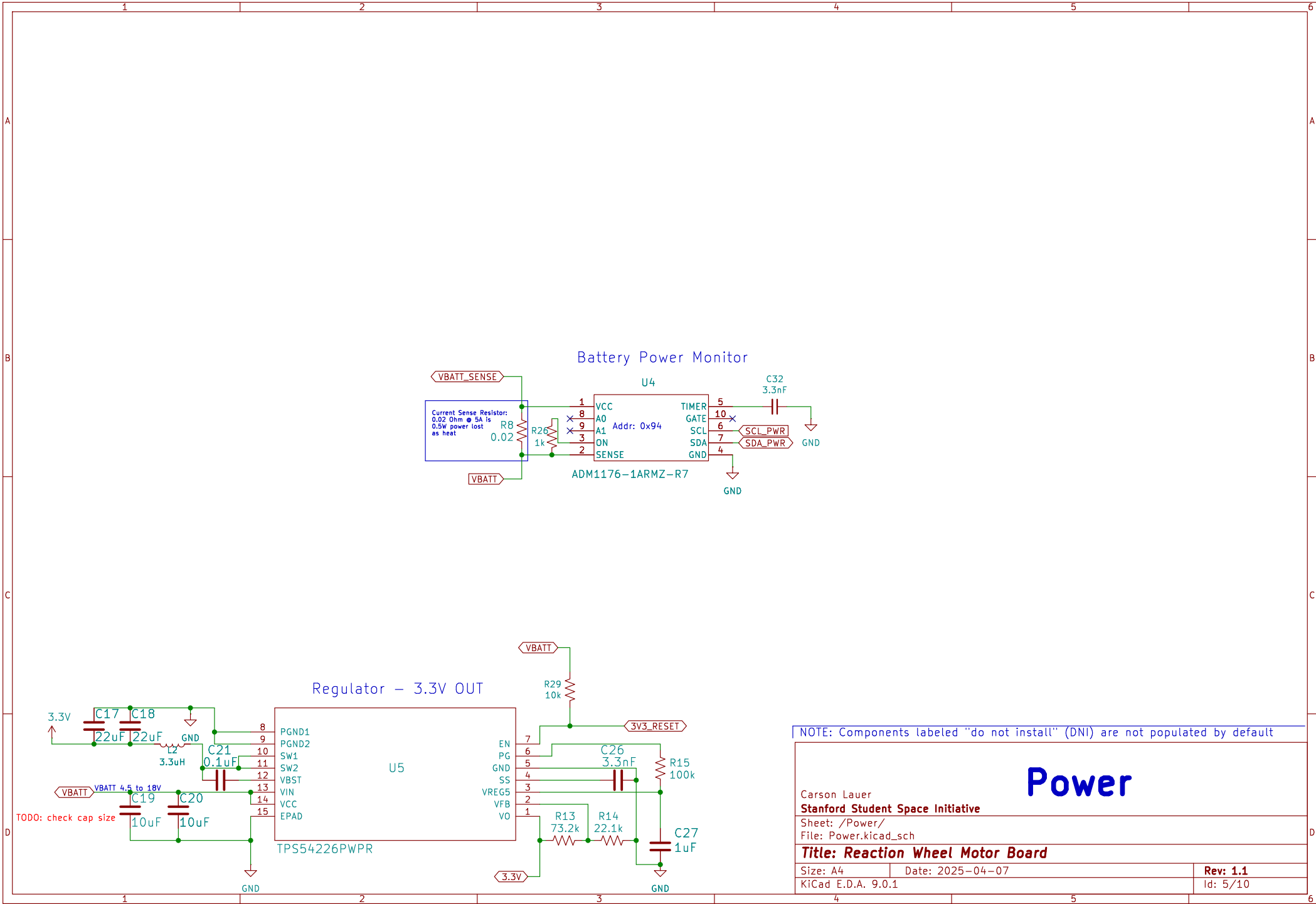
Connectors

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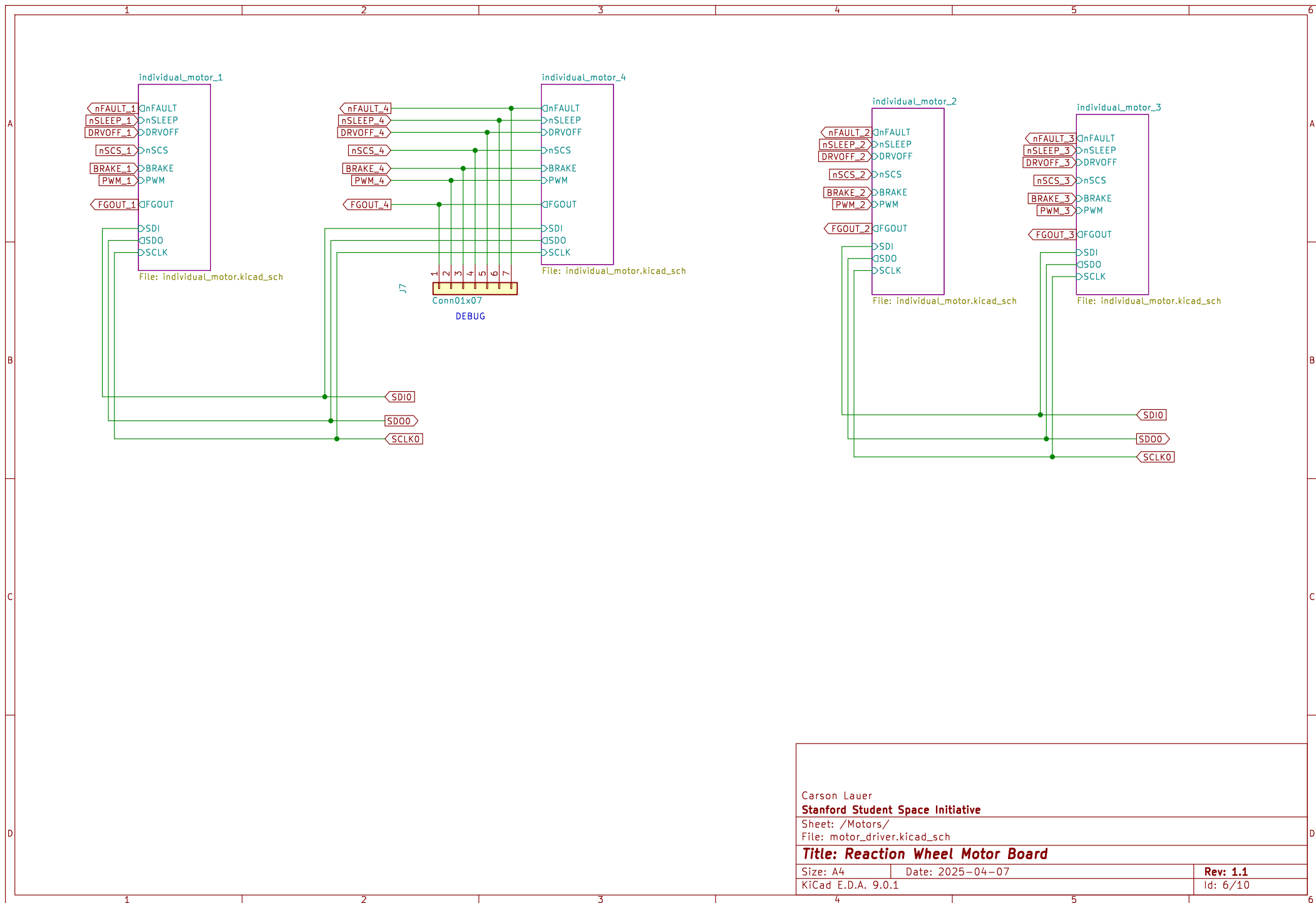
Sheet: /Connectors/
File: Connectors.kicad_sch

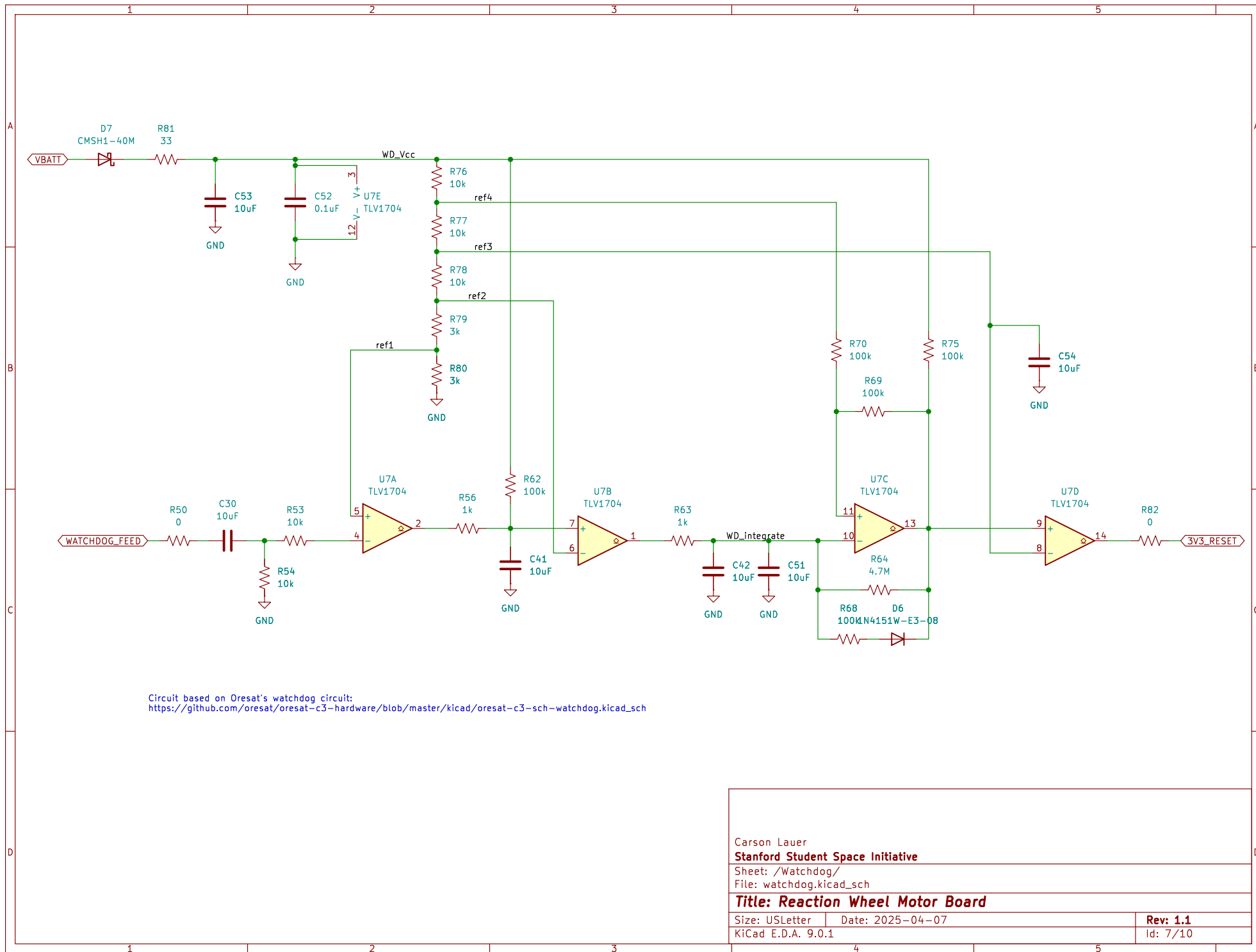
Title: Reaction Wheel Motor Board

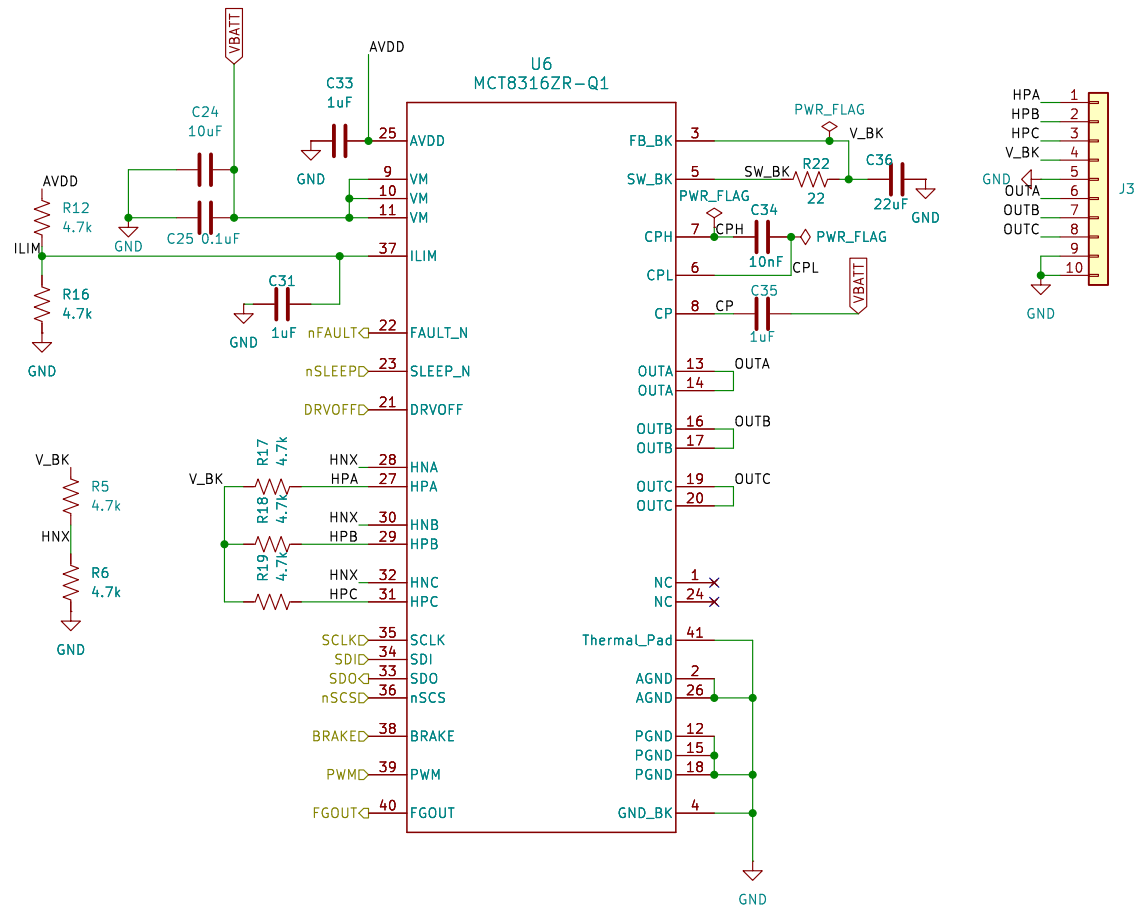
Size: A4	Date: 2025-04-07	Rev: 1.1
KiCad E.D.A. 9.0.1		Id: 4/10



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Sheet: /Power/
File: Power.kicad_sch
Title: Reaction Wheel Motor Board
Size: A4 Date: 2025-04-07
KiCad E.D.A. 9.0.1







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Sheet: /Motors/individual_motor_2/

File: individual_motor.kicad_sch

Title: Reaction Wheel Motor Board

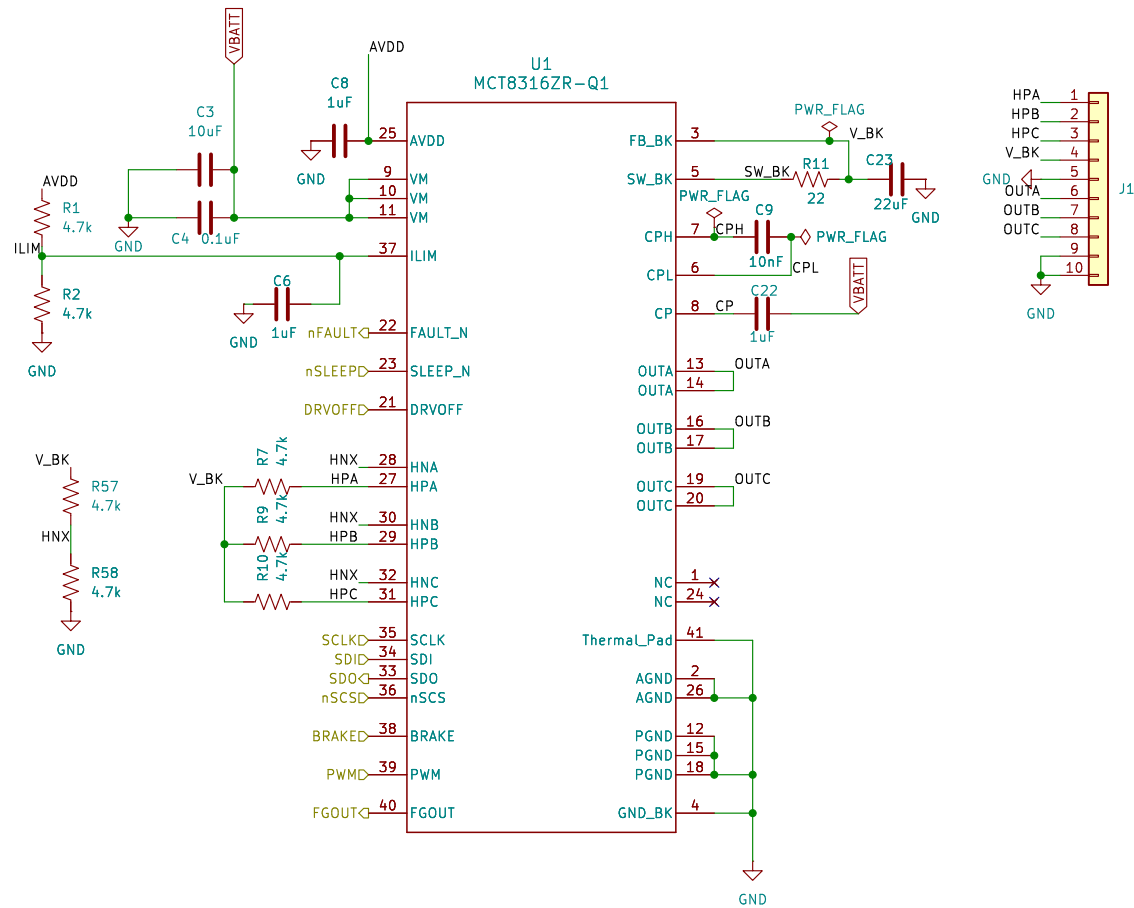
Size: A4

Date: 2025-04-07

Rev: 1.1

KiCad E.D.A. 9.0.1

Id: 3/10



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Sheet: /Motors/individual_motor_1/

File: individual_motor.kicad_sch

Title: Reaction Wheel Motor Board

Size: A4

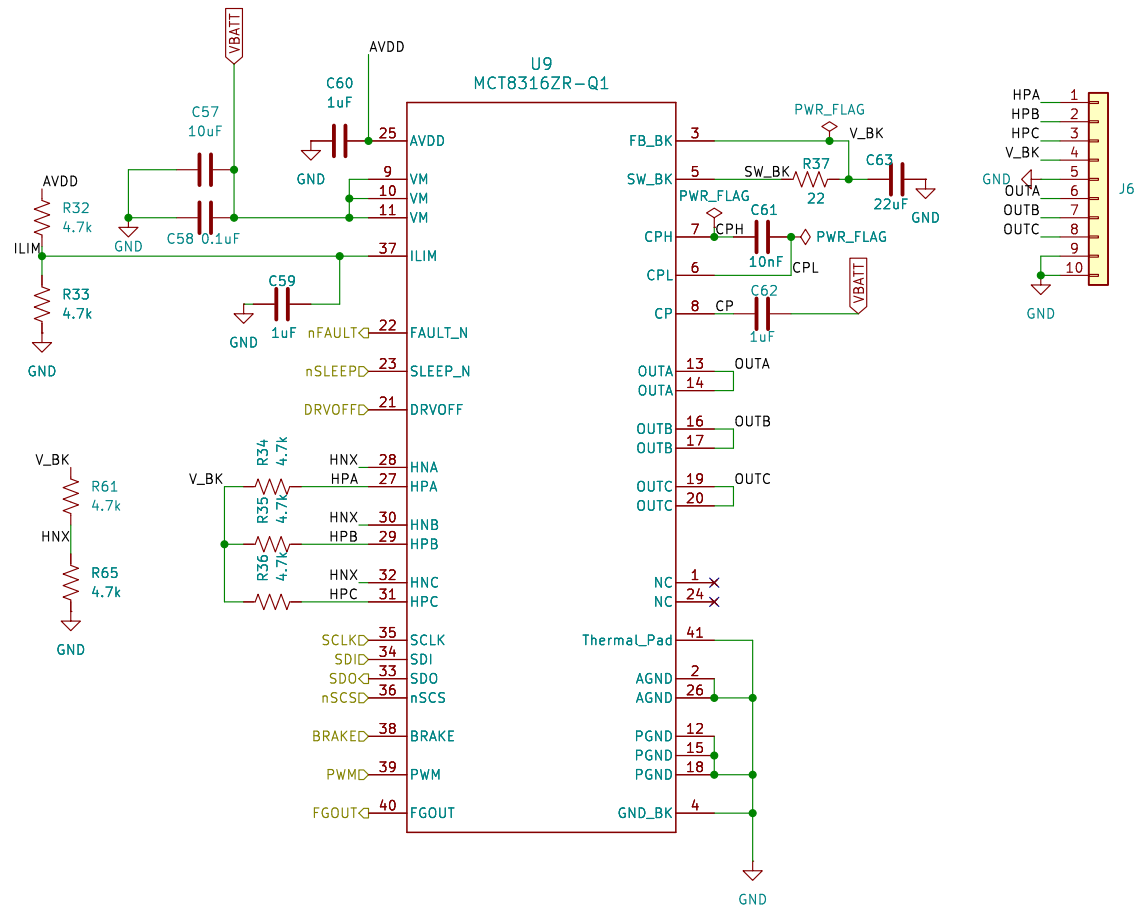
Date: 2025-04-07

Rev: 1.1

KiCad E.D.A. 9.0.1

Id: 7/10

Id: 8/10



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Sheet: /Motors/individual_motor_4/

File: individual_motor.kicad_sch

Title: Reaction Wheel Motor Board

Size: A4

Date: 2025-04-07

Rev: 1.1

KiCad E.D.A. 9.0.1

Id: 9/10