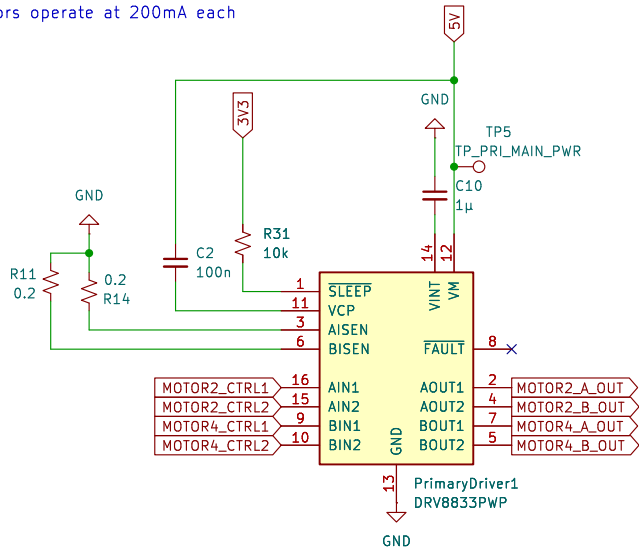


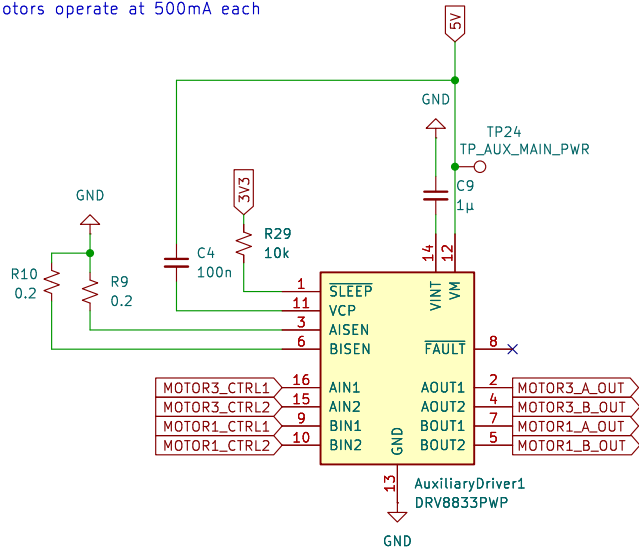
MAIN MOTOR DRIVER

Enables bidirectional control of two unbrushed DC motors with PWM control
Main motors operate at 200mA each

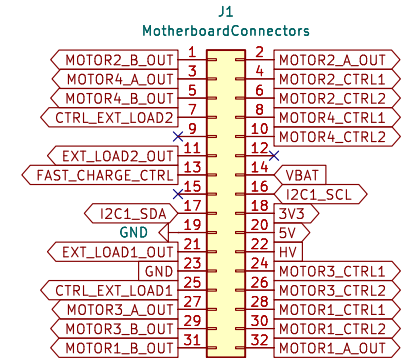


AUXILIARY MOTOR DRIVER

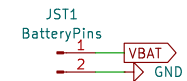
Enables bidirectional control of two unbrushed DC motors with PWM control
Auxiliary motors operate at 500mA each



Motherboard Connectors

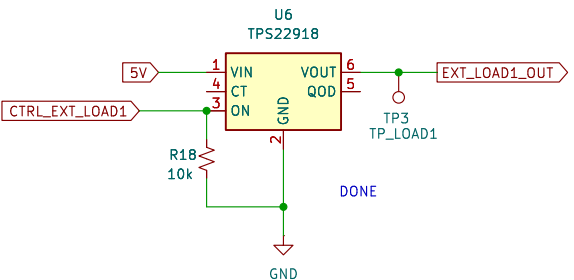


Battery Connectors



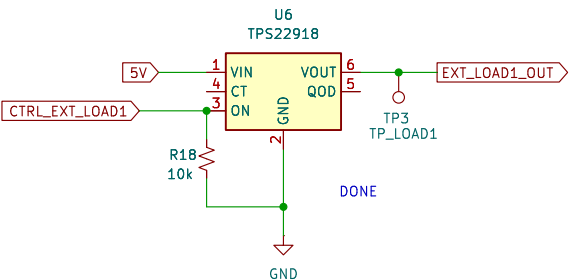
External Load 2 Switch

High-side load switch allows 5V power delivery to external modules

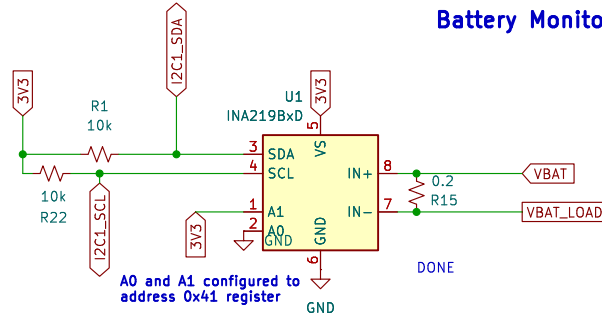


External Load 1 Switch

High-side load switch allows 5V power delivery to external modules

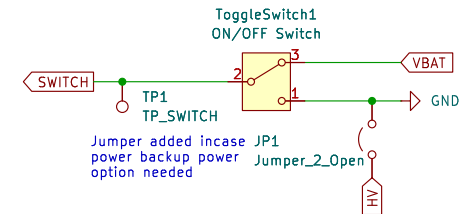


Battery Monitoring



Current and voltage sensor connected to the battery input.
Real-time power consumption is measured via I2C and enables battery monitoring

ON/OFF Switch



Implements system-wide power control using SPDT toggle switch.
Enables or disables all voltage rails, ensuring full shutdown in OFF mode

Danella Oelofse
OLFDAN001

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Size: A4 Date: 2025-04-25

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