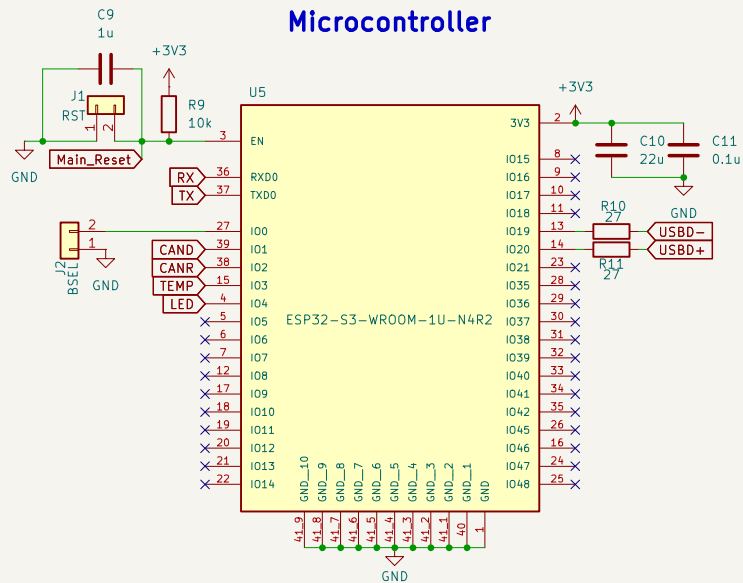
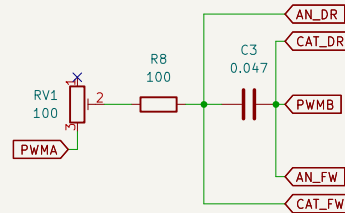


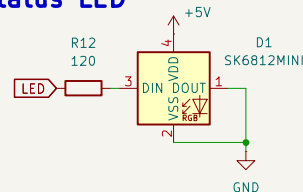
Microcontroller



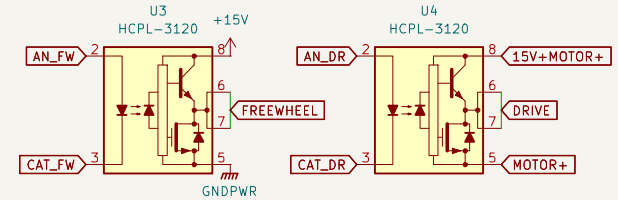
Hardware Deadtime



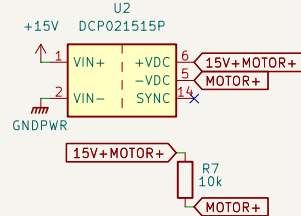
Status LED



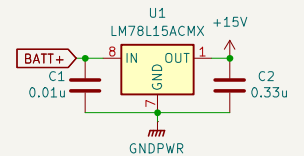
Gate Drive Optocouplers



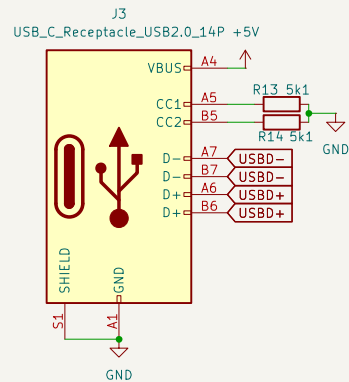
DC/DC Isolator



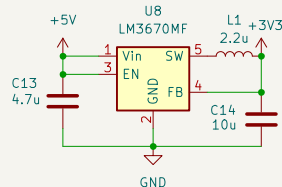
Buck Converter



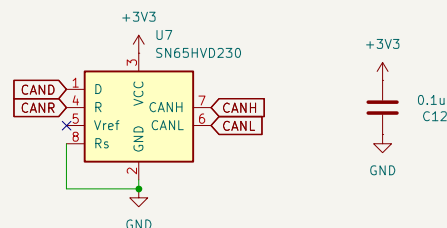
Programming USB



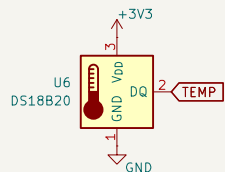
3V3 Regulator



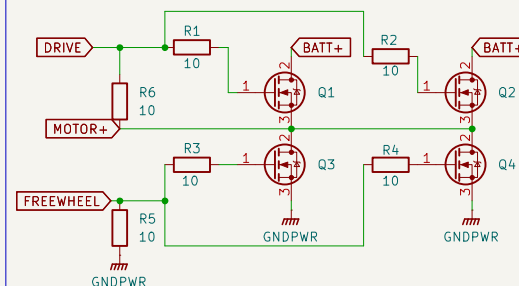
CAN Transceiver



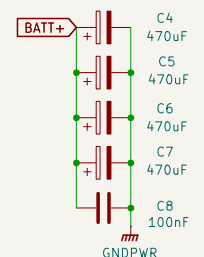
Onboard Temp Sensor



MOSFETs



Caps



The original Firefly ECU V2 schematic contains additional functionality that is not included here. This reproduction contains all circuitry discussed in the article and is provided as-is. It is presented for documentation purposes rather than as a reference design. Anyone attempting to reproduce a similar controller should consult proper design resources beyond this informal write-up. For example, connector pinouts and ancillary interface circuitry are intentionally omitted.

Firefly Racing

Sheet: /
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Title: Luciferin

Size: A4 Date: 2026-02-15
KiCad E.D.A. 9.0.5

Rev: 1.0
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