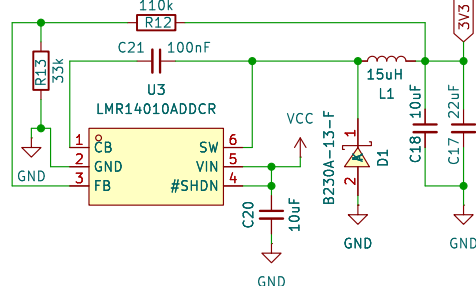
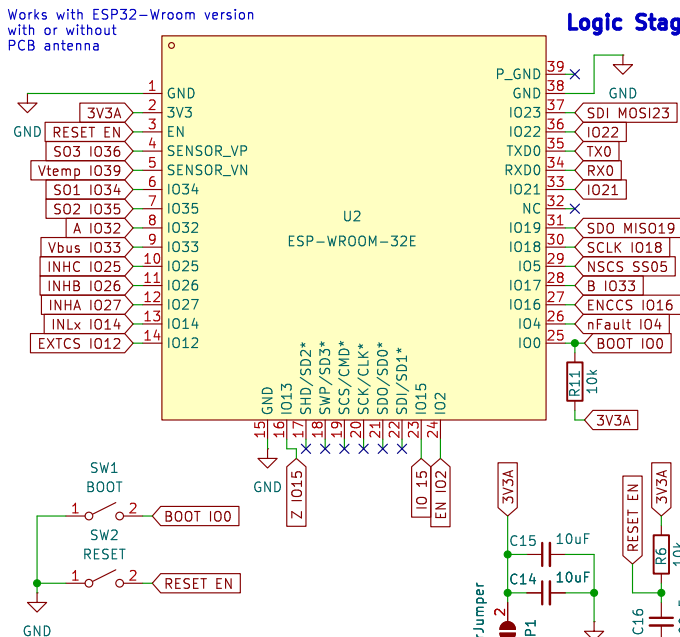
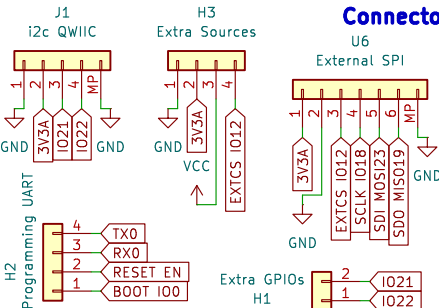


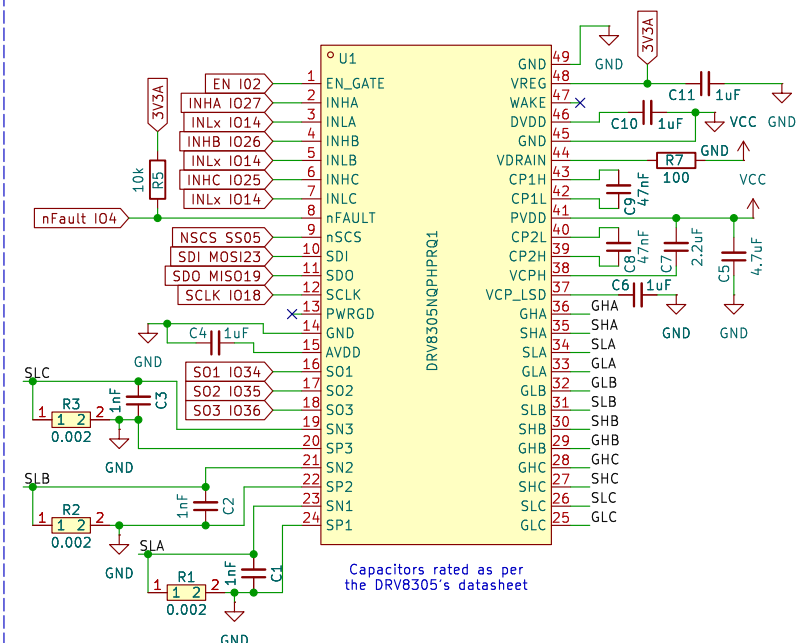
Place capacitors as close as possible to the MOSFETs
At least 25V rated capacitors, ideally 50V



$$\begin{aligned} R1(R12) &= 33K * ((3.3/0.765) - 1) = 109K \\ C_{out}(C18+C17) &> (2 * 0.75) / (700,000 * 3.3 * 0.02) = 32\mu F \\ L_{min} &> ((24 - 3.3) / (0.75 * 0.35)) * ((3.3) / (24 * 700,000)) = 15 \mu H \end{aligned}$$



IO2 – Use as output only, has internal pull-down.
 BOOT (IO0) – Use as output only, has external pull-up.
 MTDO (IO15) – Use as output only, has internal pull-up.
 MTDI (IO12) – Use as output only, if used as input change to 1.8V logic can occur.
 Has internal pull-down.



Capacitors rated as per
the DRV8305's datasheet

Victor Nan Fernandez–Ayala

Sheet: /

File: Victor-Brushless-Controller.kicad_sch

Title: Victor-Brushless-Controller

Size: A4	Date: 2025-05-27
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Rev: 1.0

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