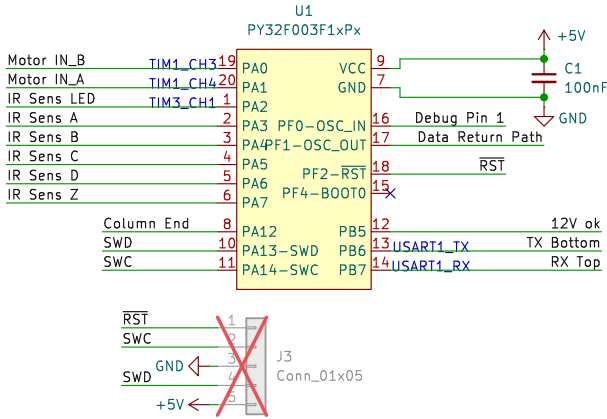
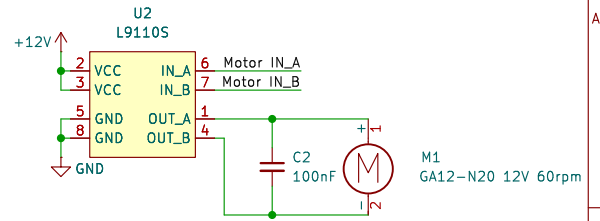


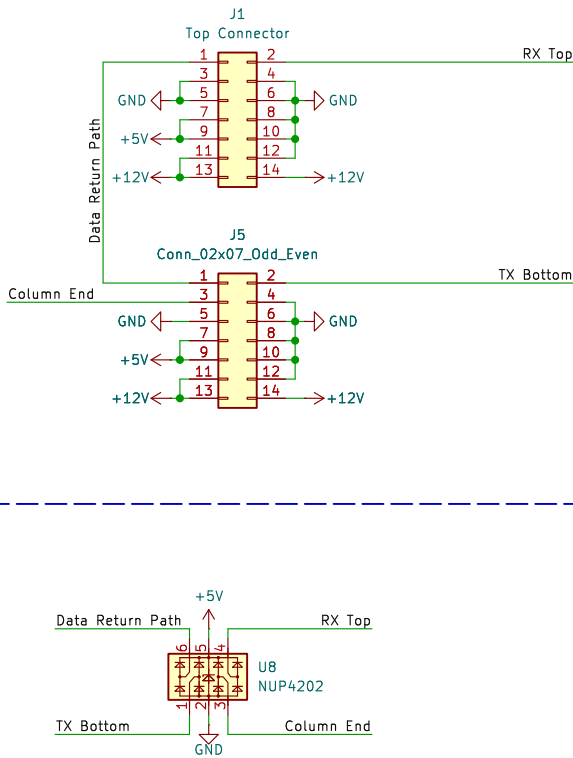
Microcontroller



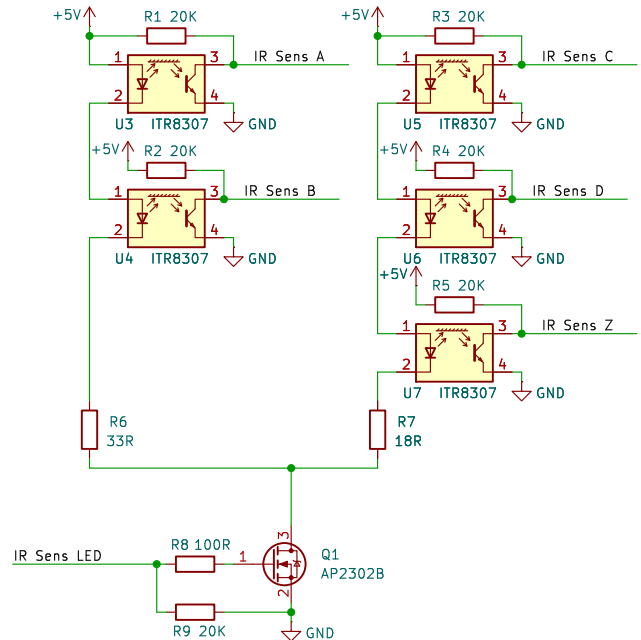
Motor Controller



Top & Bottom Connector



IR Optical Encoder



$$V_s = 5V$$

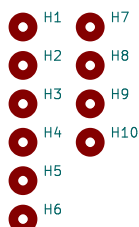
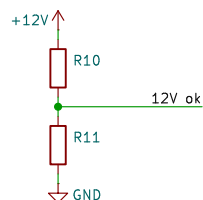
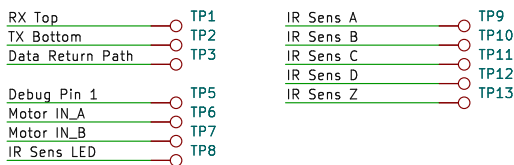
$$V_f = 1.2V$$

$$I_f = 77mA$$

$$R6 = \left[\frac{V_s - (2 \times V_f)}{I_f} \right] = 33 \text{ Ohm}$$

$$R7 = \left[\frac{V_s - (3 \times V_f)}{I_f} \right] = 18 \text{ Ohm}$$

Debug



Designer: Toon Van Eyck
Repo: github.com/ToonVanEyck/OpenFlap
Commit: v0.0.0-unstable-161-gea23e84-dirty
OpenFlap
Sheet: /
File: side_panel.kicad_sch
Title: Side Panel
Size: A4 Date: 2025-08-01
KiCad E.D.A. 8.0.6



Rev: 6.1.0
Id: 1/1