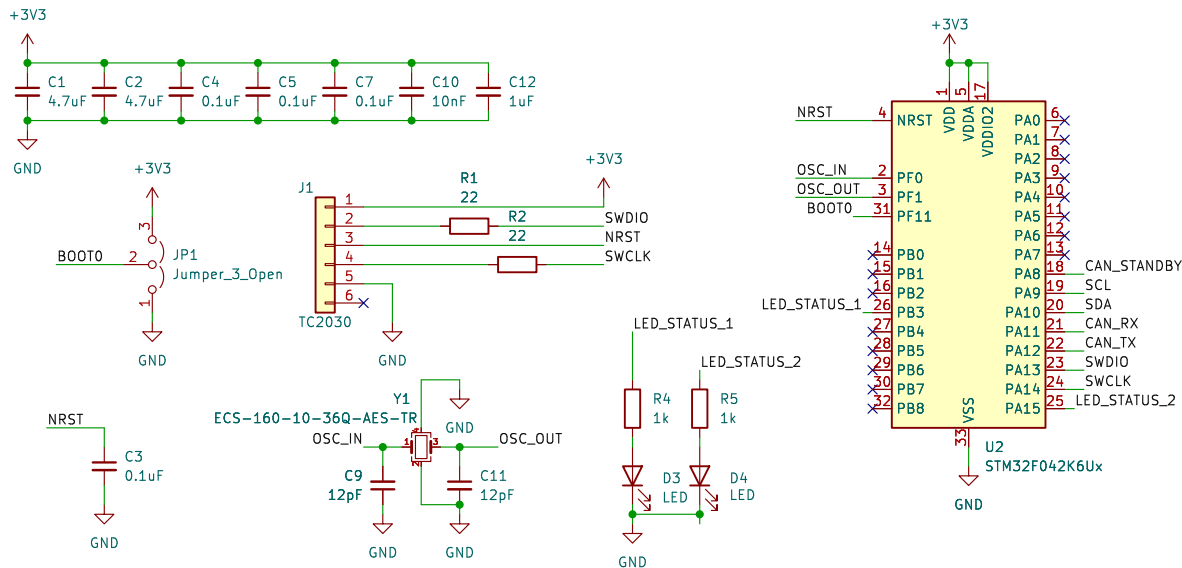


Hardware Requirements

- MLX90641ESF-BCA-000-SP IR Sensor Array
- I2C bus interface
- non-isolated can transceiver
- robust, unable to break device easily from power / CAN pins
- must be powered from 5 – 12V, survive high transients

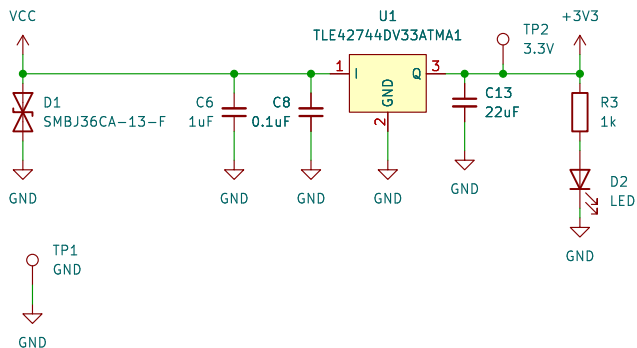
Microcontroller



Power Supplies

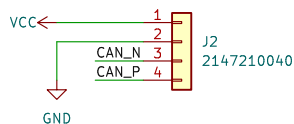
3.3V Regulator 400mA max, 4.5-40V input

- reverse-polarity protection
- over temperature protection
- over current protection
- short circuit protection

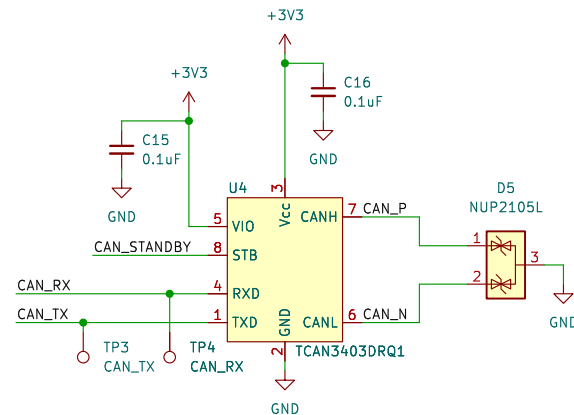


Connector

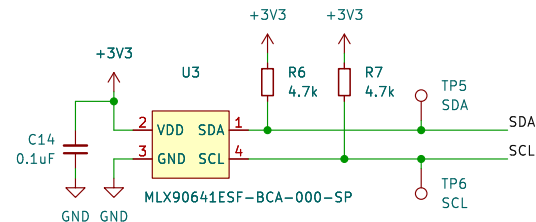
Molex Zero-Hatchi
Mating Assembly: 2263921043



CAN Bus Tranciever



IR Sensor



Brian Glen

Sheet: /
File: canbus_tire_temp_sensor.kicad_sch

Title: CAN Bus Tire Temperature Sensor

Size: A4 Date: 2025-03-29

KiCad E.D.A. 9.0.1

Rev: AA

Id: 1/1