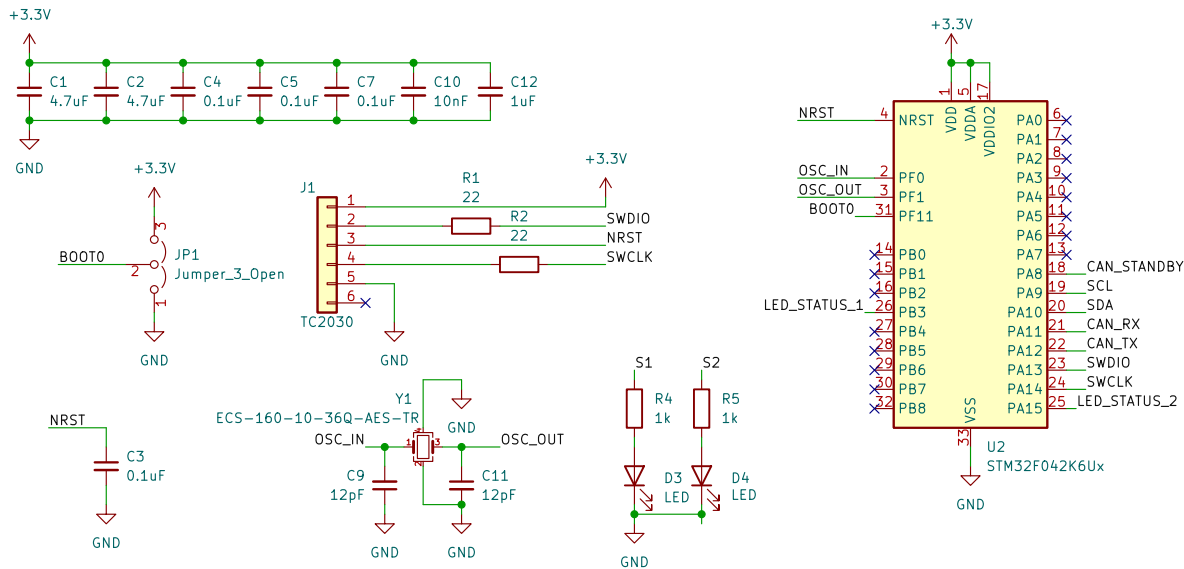
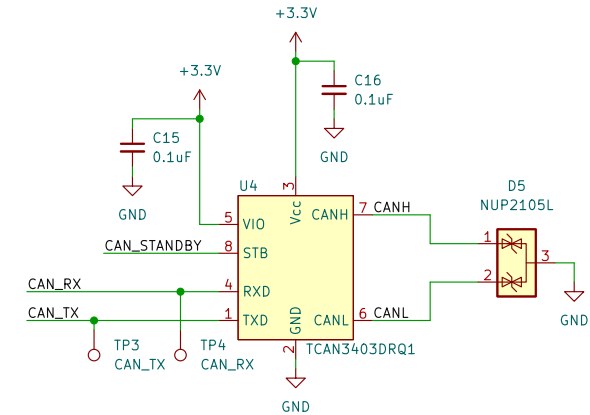


- Hardware Requirements
- MLX90641ESF-BCA-000-SP IR Sensor Array
 - I2C bus interface
 - non-isolated can transceiver
 - robust, unable to break device easily from power / CAN pins
 - must be powered from 5 - 12V, survive high transients

Microcontroller

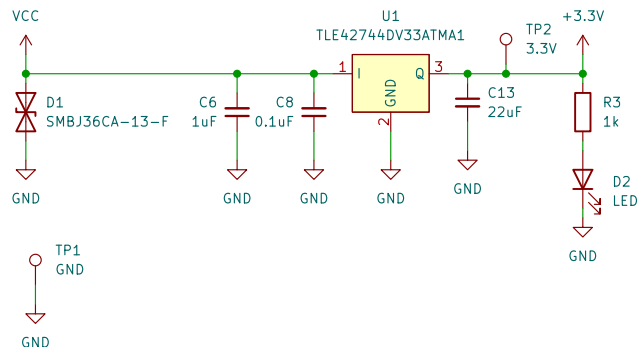


CAN Bus Tranciever



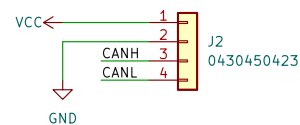
Power Supplies

- 3.3V Regulator 400mA max, 4.5-40V input
- reverse-polarity protection
 - over temperature protection
 - over current protection
 - short circuit protection

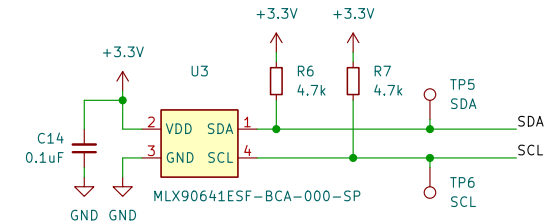


Connector

Molex-Microfit 3.0
Mating Plug: 0430250400
Mating Plug Terminals: 0430300001



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. kicad (6.0.4-0)

Rev: AA

Id: 1/1