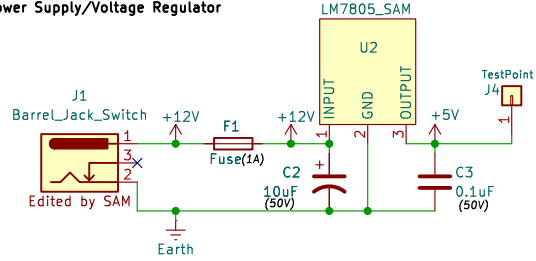
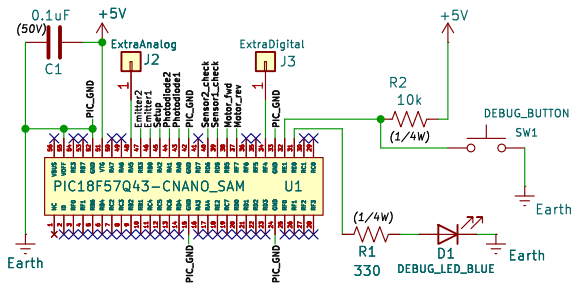


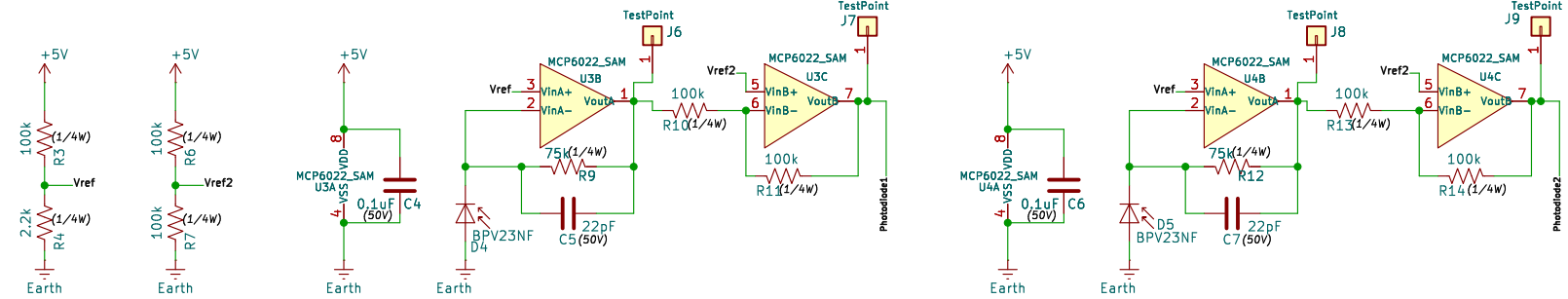
Power Supply/Voltage Regulator



Microcontroller

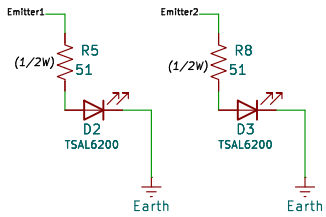


IR Photodiodes

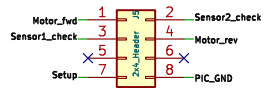


IR Emitters

(Pulsed at 20kHz, 50% duty cycle)



Ribbon Cable Connector



Team 103: Private-Use Door Automation

Sheet: /
File: EGR304-IndividualSubsystemDesign.kicad_sch

Title: IR Distance Sensor Subsystem Design

Size: User	Date: 2025-10-29	Rev: 3
KiCad E.D.A. 9.0.5		Id: 1/1