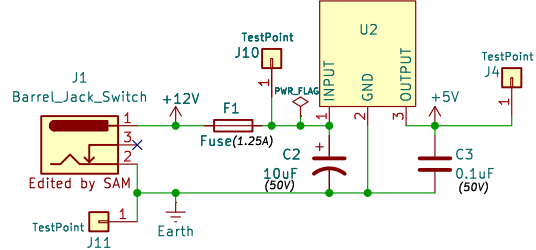
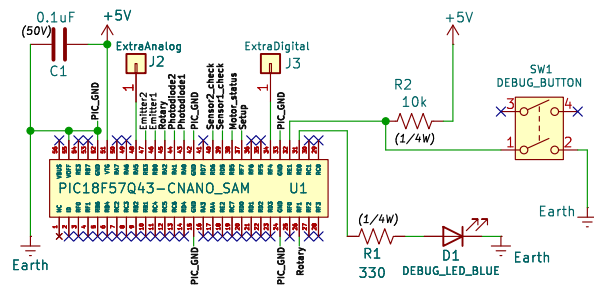


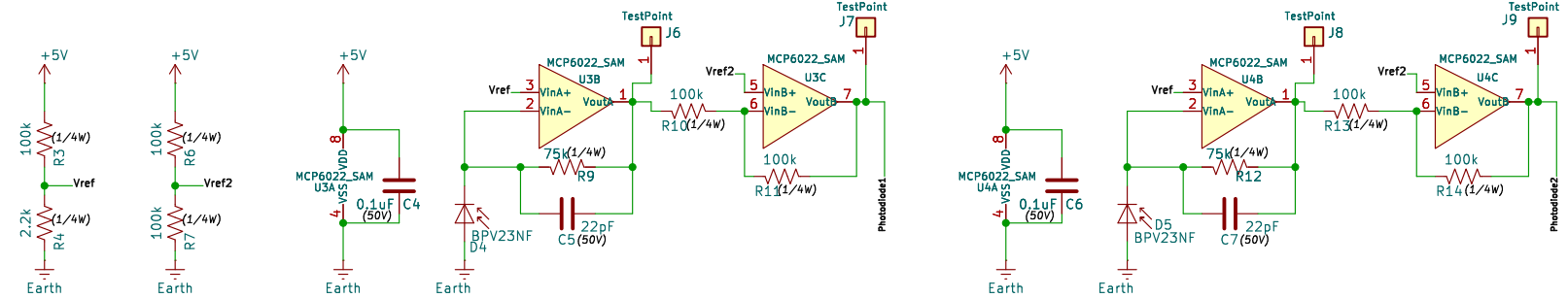
Power Supply/Voltage Regulator



Microcontroller

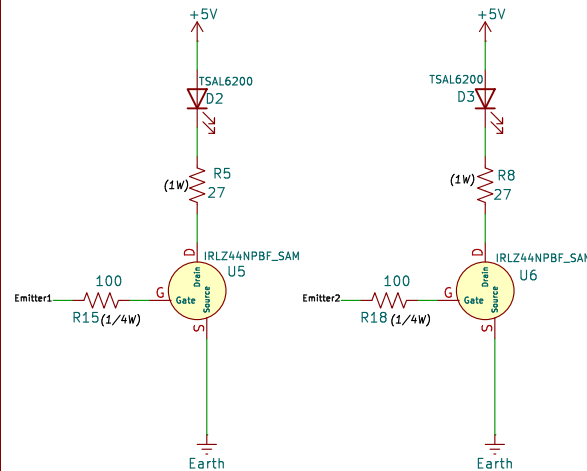


IR Photodiodes

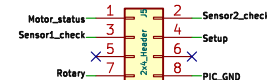


IR Emitters

(Pulsed at 20kHz, 25% duty cycle)



Ribbon Cable Connector



Team 103: Private-Use Door Automation

Sheet: /

File: EGR304-IndividualSubsystemDesign.kicad_sch

Title: IR Distance-Sensing Subsystem Design

Size: User

Date: 2025-11-05

Rev: 6

KiCad E.D.A. 9.0.5

Id: 1/1