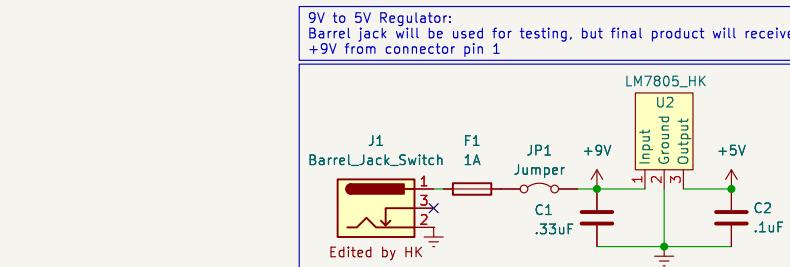
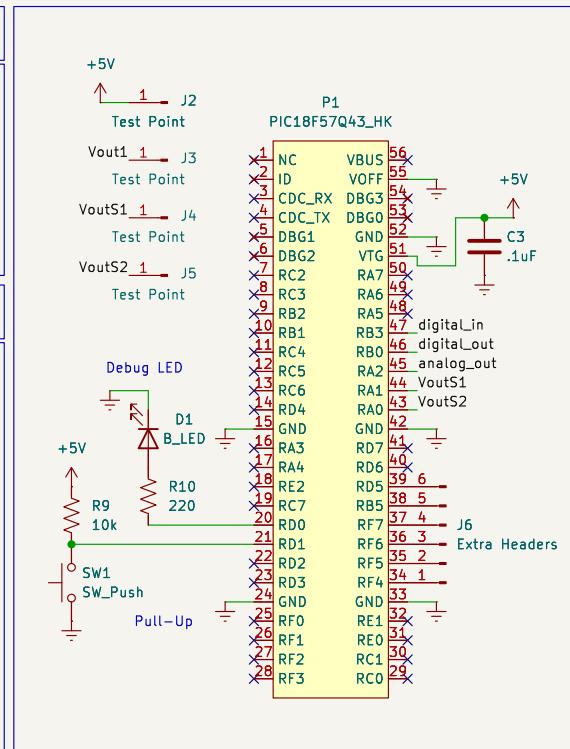
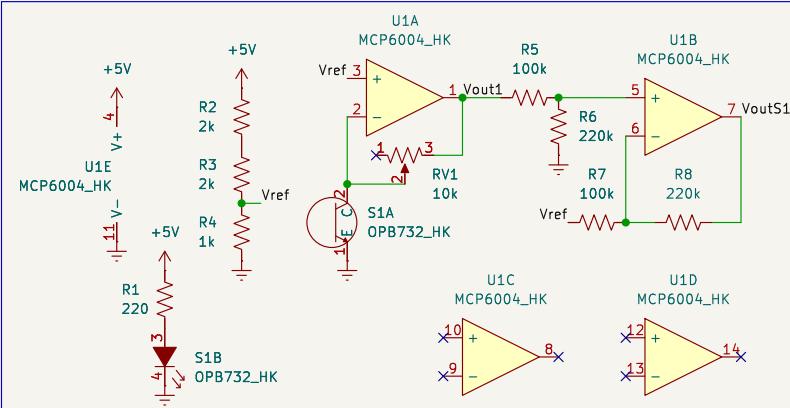


A

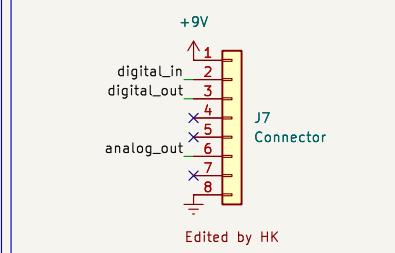
A



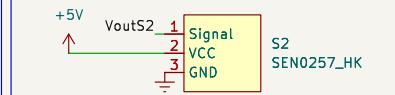
IR Reflective Sensor (S1):
LED and IR sensor, quad opamp-amp used for signal clarity, outputs analog distance signal (VoutS1) to PIC, ADC value used to calculate capacity percentage of water tank, DAC value transmitted to hub (analog_out)



Subsystem Connector:
Will receive digital_in and +9V from hub, transmit analog_out and digital_out to hub, shared ground



Pressure Sensor (S2):
Outputs analog pressure signal (VoutS2) to PIC, ADC value used to check if pressure optimal/suboptimal, digital value transmitted to hub (digital_out)



All resistors are rated 1/4 W

All capacitors are rated 50V

Team 211: Hafsa Kaysan

Sheet: /
File: EGR304_IndividualSubsystem.kicad_sch

Title: Subsystem Schematic Design

Size: A4 Date: 2025-10-20
KiCad E.D.A. 9.0.5

Rev:
Id: 1/1