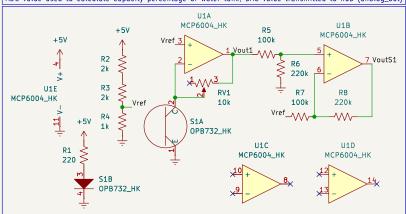
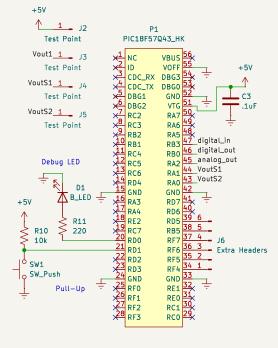
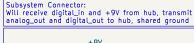
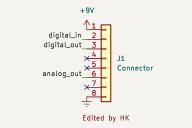


IR Reflective Sensor (S1):
LED and IR sensor, quad omp—amp used for signal clarity, outputs analog distance signal(VoutS1) to PIC,
ADC value used to calculate capacity percentage of water tank, DAC value transmitted to hub (analog_out)

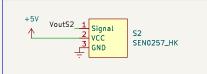








Pressure Sensor (S2):
Outputs analog pressure signal (VoutS2) to PIC, ADC value used to check if pressure optimal/suboptimal, digital value transmitted to hub (digital_out)



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
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 Size: A4
 Date: 2025-10-20
 Rev:

 KiCad E.D.A. 9.0.5
 Id: 1/1

3