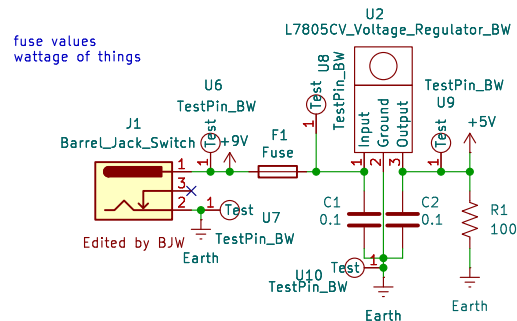
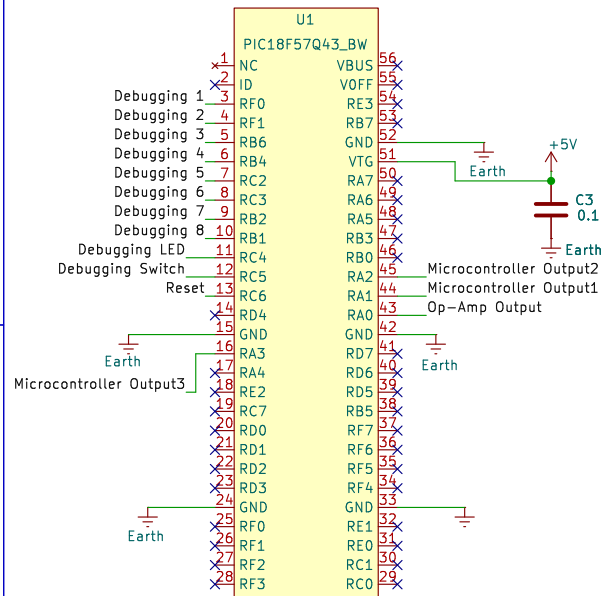


Power

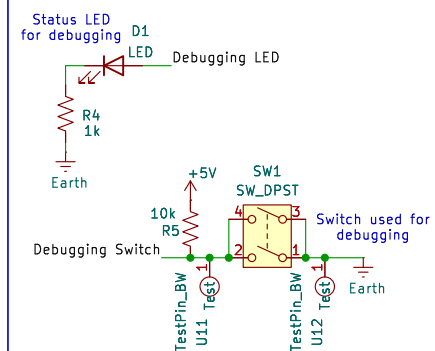
Barrel jack port outputs 9V connected to a fuse in case too much power is outputed. That connects to a voltage regulator that outputs 5V and 1.5A current.



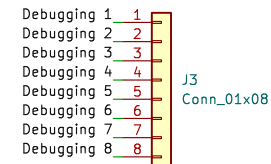
Microcontroller



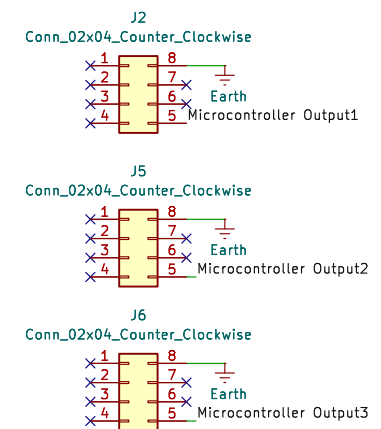
Debugging



Extra header pins for debugging

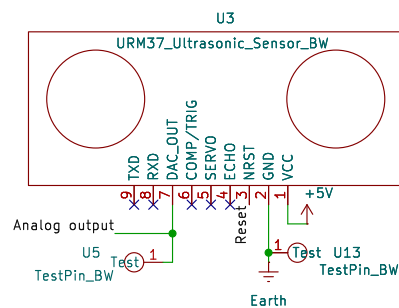


Ribbon Cables



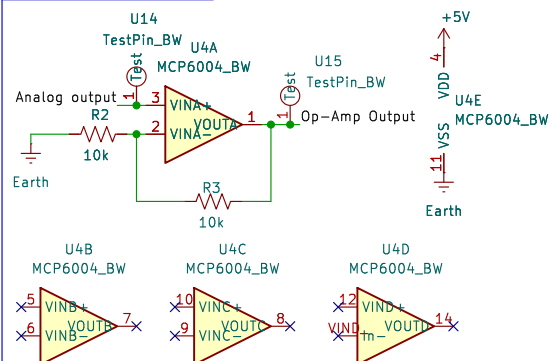
Ultrasonic Sensor

Ultrasonic sensor outputs an analog signal into an op-amp.
There is a signal for resetting the sensor in case of an error.



Op-Amp

The op-amp takes the analog output from the ultrasonic sensor and then it amplifies it by a gain of 2 which then goes into the microcontroller



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File: Subsystem Schematic Design.kicad_sch

Title: Subsystem Schematic Design

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KiCad E.D.A. 9.0.4

Rev: 2.0

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