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Github: emanuelf-sfsu CSC615 Embedded Linux

Assignment 2 - Tapeless-Ruler

Description:

Create a tapeless ruler using a Echo Sensor (HC-SR04). The distance will be displayed in centimeters.

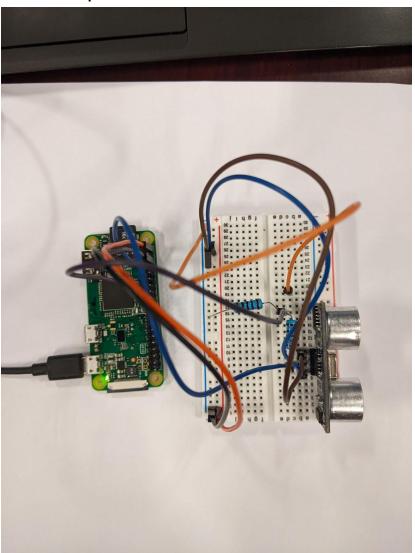
Approach / What I Did:

First thing I did was add power to the bread board. I did this by connecting 1 wire to the 5v pin and one wire to the ground. Next I added power to the echo sensor by connecting positive to the VCC pin and ground to the ground pin. The trigger pin did not require any resisters so I connected it directly to raspberry. For the echo pin I connected it to a 220 ohm resistor and connected an other 1k resistor to ground. In the same row I connected the wire to the raspberry pi.

Issues and Resolutions:

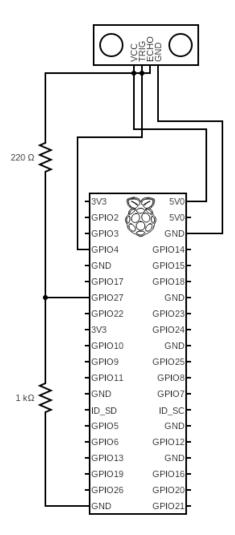
The only issue I ran into was using the wrong resistors for the echo pin. I had attached the 1k resistor to the echo pin and connected the 220 resistor to the ground.

Photo of completed circuit:



Hardware Diagram:

All components must be labeled and values specified and pins used (Physical pin numbering)



Analysis:

(If required for the assignment)

Screen shot of compilation:

Make sure it is easily readable (i.e. do not cram lots of screen shots on a single page) and that it includes the command and the complete compilation output of gcc. There should be no warnings or errors.

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Screen shot(s) of the execution of the program:

Show all necessary screen shots (some assignments require more than one). These should be in the Terminal window.