

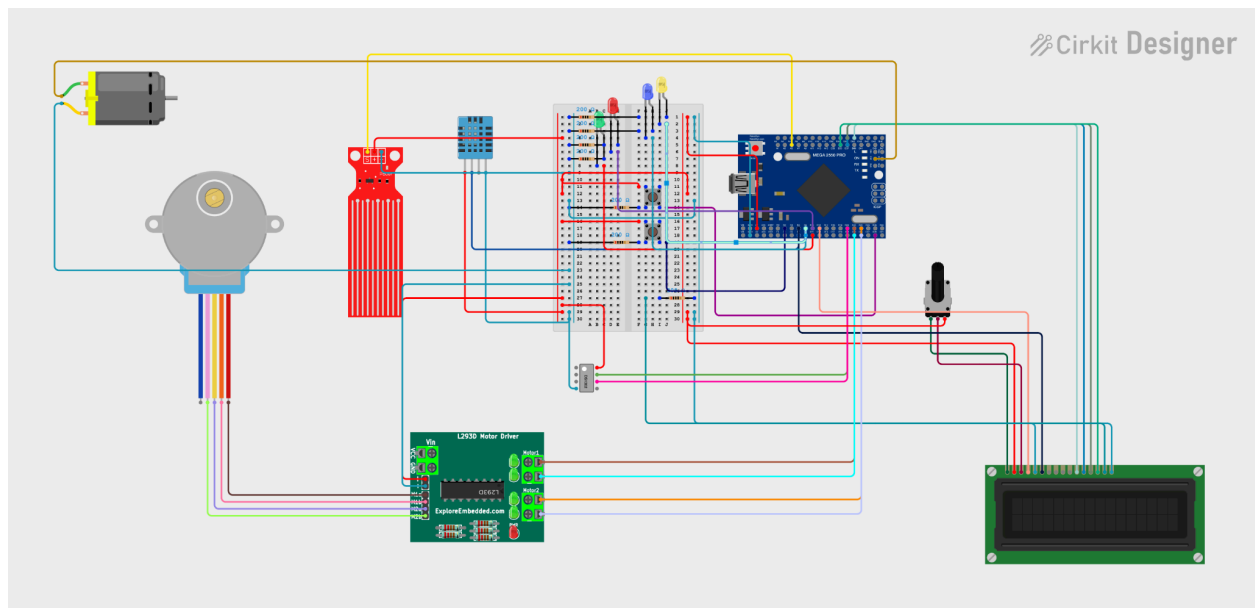
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Final Project
CPE 301.1001
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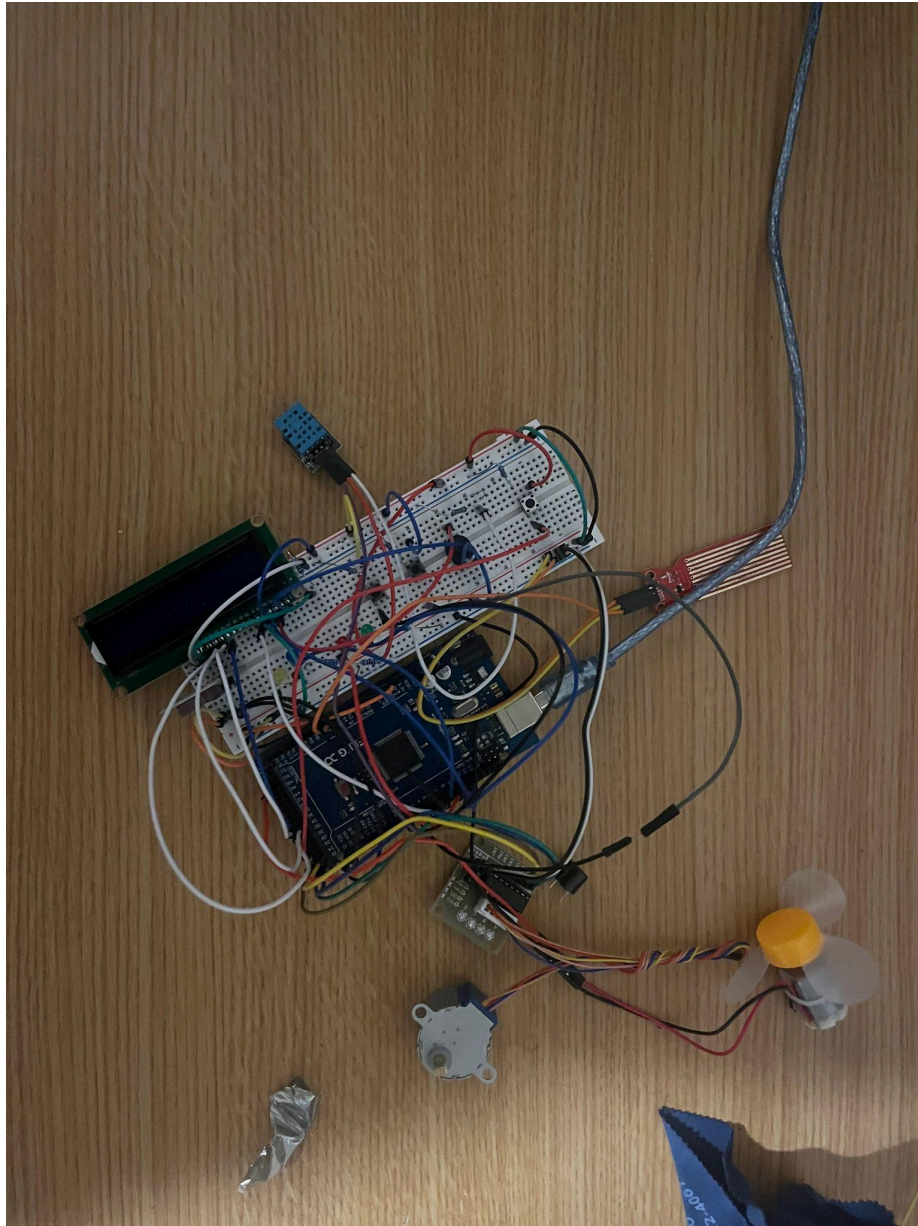
Swamp Cooler

Overview:

This project has us take an arduino with an input of a water sensor, 2 buttons, and a temperature and humidity sensor and use those to control a motor that can change the direction of an output based on a user input of one of the buttons. It will also take the water and temperature levels and activate a fan at a certain point, if a user presses the other button. The circuit will be in different “States”, indicated by the LED’s. Red means ERROR, and the water level is too low, so the fan won’t start no matter what. Blue means the fan is on and all levels are adequate. Green means Idle and all conditions for the fan are met, it just has to be turned on. Yellow means the circuit is disabled, and has not been turned on yet. Once the temperature measured is 65 F, the fan will shut off until it is above that.

Pictures:





Github: <https://github.com/1102-Riede-David/Swamp-Cooler/>

Video:

<https://drive.google.com/file/d/1vBlgtopfSXQKIRXPDIRCe2M8FxdzaqRM/view?usp=sharing>