Michael Munakash

CPE Final Project

Constraint: Stepper Motor does not rotate counter-clockwise, it only rotates clockwise. Buttons are do not work on first push, might have to push it a couple times for them to work.

Overview of Design: I did not plan the design of the project good. The current design is crammed with wires and little space to add any additional devices when needed. The LDC screen has wires going over it which makes it harder to see the temperature and humidity percentage. Wires are also hovering over the buttons on the breadboard. This makes it more challenging for the user to press the button to move on with the operation. Some positivity about the design is that it is small and portable which would be useful when traveling or whenever you need a swamp cooling system.

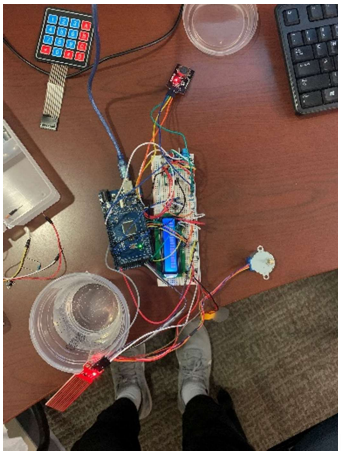
Useful diagrams/schematics:

Website to help with analog reading through port manipulation: electronics.stackexchange.com/questions/567679/arduino-port-manipulation-analogread

Diagram of the different port location on the Arduino Board: https://windowsgeek.lk/iot-with-arduino/arduino-mega-pinout-diagram/

CPE 301 Labs (especially lab 4 and lab 8)

GitHub Repository: https://github.com/1001-munakash-michael/CPE-301-Final-Project/blob/main/FinalProject.ino



Link to video: https://www.youtube.com/watch?v=ZAcjTWnlpOk