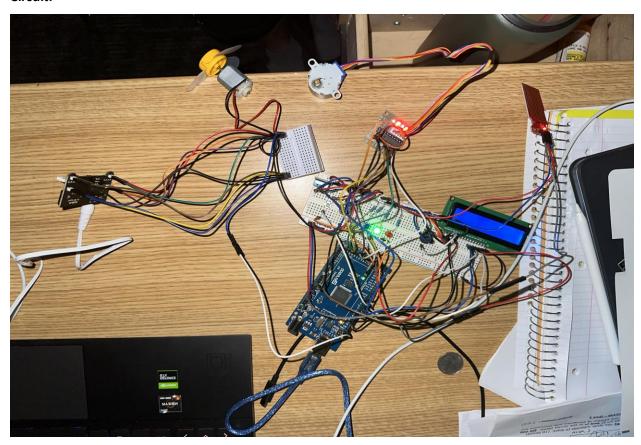
Edgar Lopez

CPE 301

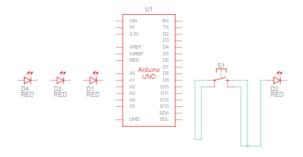
05/09/2023

Project Overview

Circuit:



Schematics:



Arduino Mega 2560 Stepper Motor Kit Motor Fan Blade **DHT Sensor** Water Sensor **Power Supply** Breadboard Mini Breadboard Button 2X Potentiometer 4 LEDS (Blue, Green, Red, Yellow) Wires of various lengths (female to male & male to male) 4X 1k OHMS Resistor 330 OHMS Resistor C++/C Prog Language Arduino IDE Documentation used for build: https://ww1.microchip.com/downloads/en/devicedoc/atmel-2549-8-bit-avr-microcontroller-atmega640-1280-1281-2560-2561_datasheet.pdf (ATMEGA 2560 DATA SHEET) https://github.com/adafruit/DHT-sensor-library (DHT library) https://github.com/arduino-libraries/LiquidCrystal (LCD library) https://github.com/arduino-libraries/Stepper (Stepper Library) http://www.pgccphy.net/1020/datasheets/ELEGOO%20Breadboard%20Power%20Supply%20Module.pd **Constraints:** Temperature can differ depending of the outside temperature

Separate power supply is needed for fan kit and fan.

Items are not waterproof.

Items Used:

Items probably cannot handle lots of pressure or extreme climates.

Video:

https://youtu.be/rOPijYhLQUU