



CALIFORNIA STATE UNIVERSITY  
**FULLERTON™**

# Voice Controlled Shower Senior Design Project

## Our Goal:

We wanted to design a shower that would be voice controlled to help remove the need for assistance when taking a shower for anyone with limited mobility or disabilities



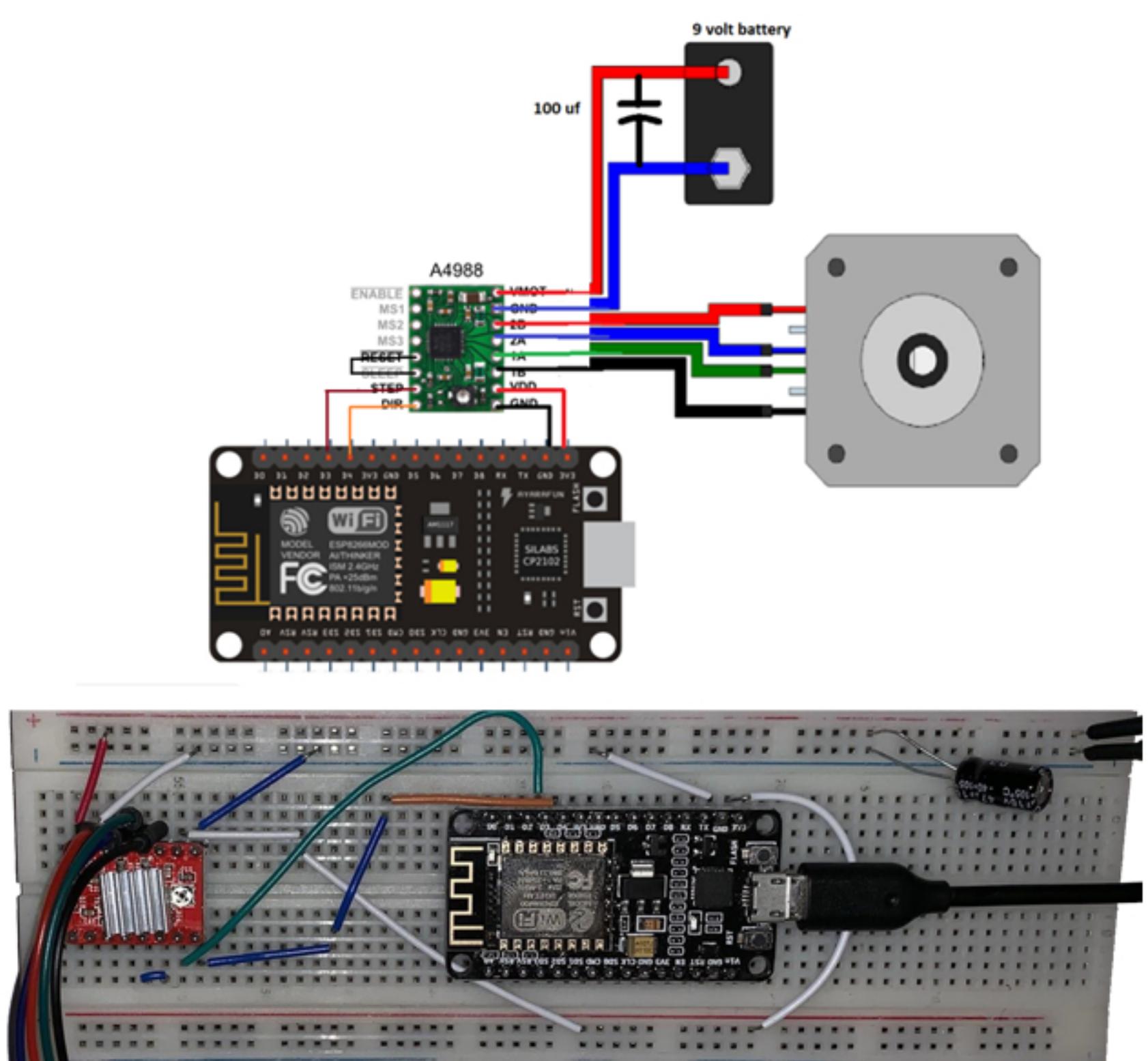
## Components:

Water Valves  
Amazon Alexa  
Ultrasonic Sensor  
Temperature Sensor  
12v DC Stepper Motor  
A4988 Stepper Motor Driver  
ESP8266 MCU 1.0 Microcontroller

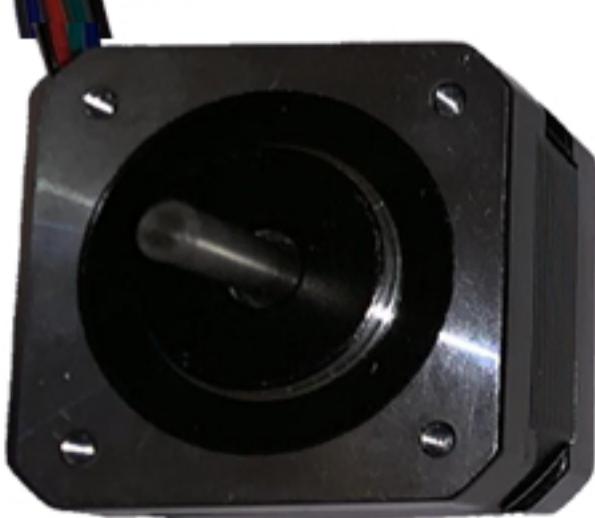
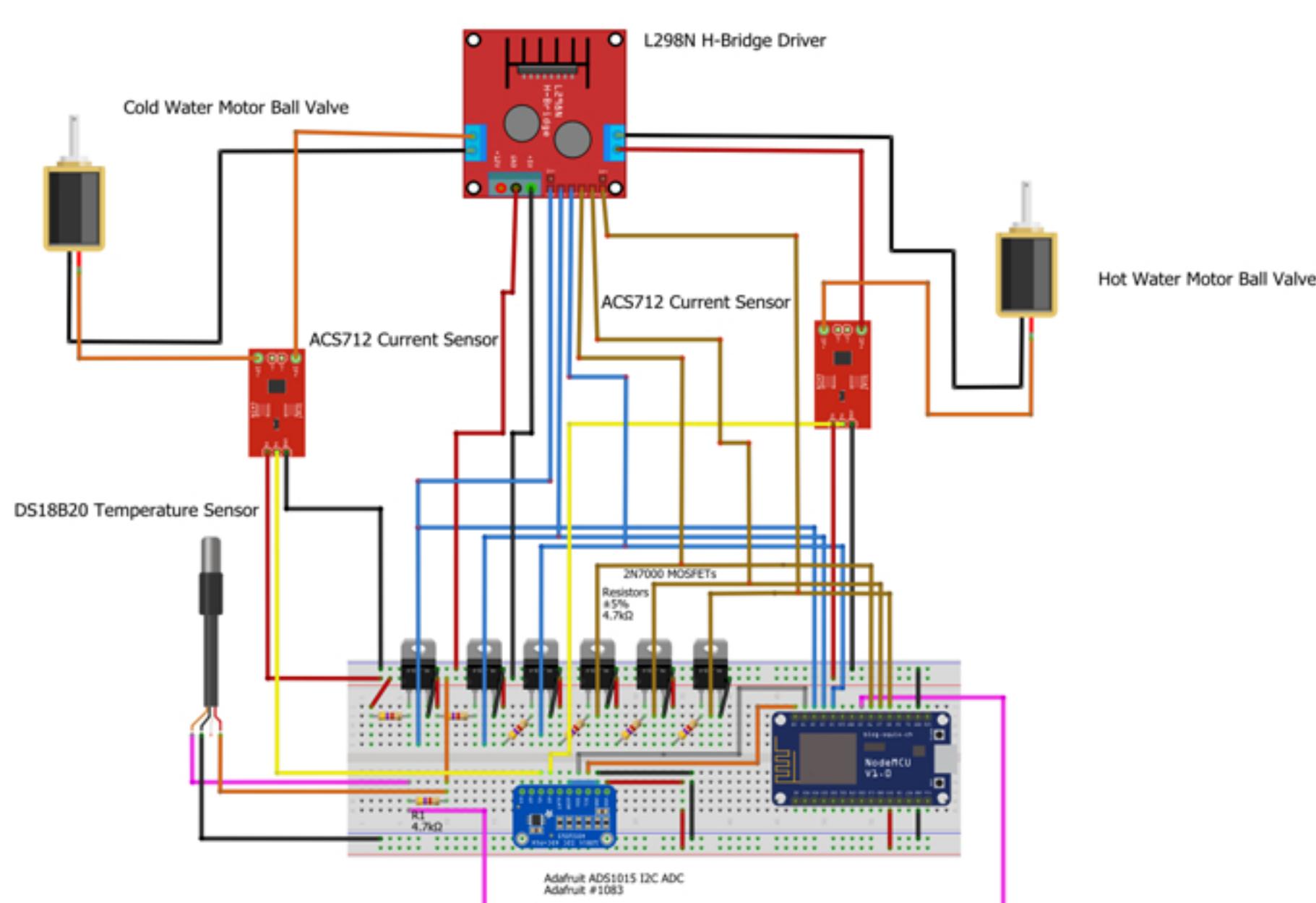
## Features:

User Presets  
On/Off Feature  
Temperature Control  
Motor Controlled Shower Head

## Stepper Motor Circuit



## Water Valve Schematic



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