

## Project #1, WIFI Enable Thermometer



### Project Explanation

A WiFi enabled weather station based on the ESP8266 microcontroller. It consists of 2 modules – a battery powered sensor unit and a display unit featuring an OLED display. The sensor sends its readings to a web server over WiFi. The display then receives this information from the server and displays it on the OLED. The display unit also access a weather information service to get the local weather forecast. The system can be easily expanded to include other sensor modules and actuators, transforming it into a full home automation system.



