# EE 3330 Project Proposal - Weather Station

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## Project Description and Details

For our project, we plan to design a weather station device that provides multiple essential metrics used in real-world weather scenarios. This device could be used in homes, allowing users to gain insight into the weather without leaving the comfort of their own homes. Additionally, we plan to create a simple web dashboard that can be accessed locally to display the sensors' readings on the user's computer or phone. Since the ESP32 microcontroller features a built-in WiFi module, as well as a small display, it will facilitate easy local monitoring.

The sensors we are planning to use for this project are the following:

- **Temperature**
- **Humidity**
- **Barometric pressure**
- **UV**
- **GPS**

However, depending on the project's progress throughout the semester, more sensors could be added later.

## Team Members

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