Forest Fire Team 5

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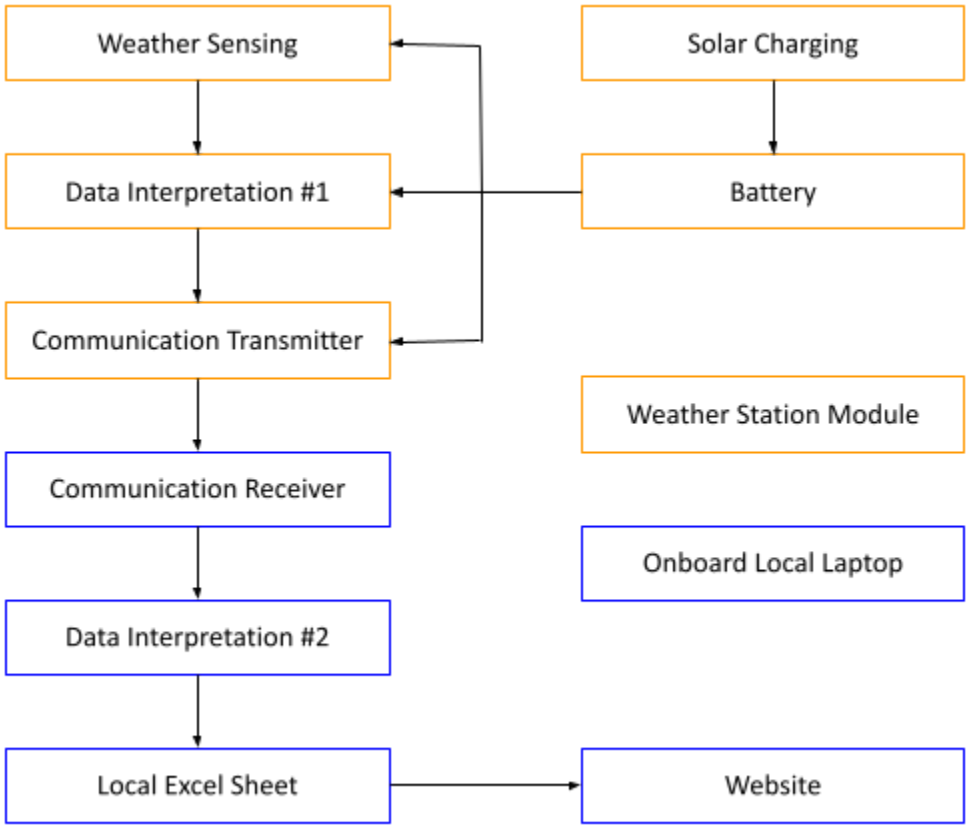

Major Subsystems:

1. Weather Station
    a. This will be the device that physically records the weather data.
    b. Physical device and necessary software
2. Anemometer
    a. This sensor will detect wind conditions
    b. Physical device and necessary software
3. Onboard Local Laptop
    a. This will contain information from the database as well as information from the weather station. Analysis will occur here to assess the likelihood of a forest fire.
    b. Necessary software components
4. Website
    a. This will be a public showcase of the data interpretation done by previous subsystems. It will provide information about the likelihood of a forest fire.
    b. Necessary software components

Requirements for Weather Station:

1. Detect wind, temperature, and humidity

2. Communicate with local laptop
3. Have a power source
    a. Does not require frequent maintenance or an outlet (likely solar-powered)
    b. Sufficiently supply sensors, microcontroller, and communication transmitter

Requirements for Anemometer:

1. Accurately detect wind data
2. Communicate with weather station

Requirements for Onboard Local Laptop:

1. Receive communication from weather station
2. Interpret data
3. Make predictions based on database information
4. Communicate with website to post information

Requirements for Website:

1. Be clear and easy to understand for the general public
2. Accurately and effectively communicate information learned from weather station