**ECE 6372- ADVANCED HARDWARE DESIGN**

**SAFETY AND MANAGEMENT USING IIOT**

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1. [Computer Screen.mp4](https://uofh-my.sharepoint.com/:v:/r/personal/pmadhago_cougarnet_uh_edu/Documents/AHD/Computer%20Screen.mp4?csf=1&web=1&nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=QW1WGn)

This video has the screen recording of the project displaying the readings of temperature, humidity, pressure, accelerometer, gyroscope, and magnetometer.

1. [Temperature.mp4](https://uofh-my.sharepoint.com/:v:/r/personal/pmadhago_cougarnet_uh_edu/Documents/AHD/Temperature.mp4?csf=1&web=1&nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=V6WkKW)

The above video shows us a buzzer activated when the threshold value of the temperature sensor has been crossed.

1. [Humidity.mp4](https://uofh-my.sharepoint.com/:v:/r/personal/pmadhago_cougarnet_uh_edu/Documents/AHD/Humidity.mp4?csf=1&web=1&nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=Pltb8D)

The above video has the blinking of the LED when the threshold value of pressure has been crossed.

1. [Gesture.mp4](https://uofh-my.sharepoint.com/:v:/r/personal/pmadhago_cougarnet_uh_edu/Documents/AHD/Gesture.mp4?csf=1&web=1&nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=wlWb76)

The above video displays us the reading of the accelerometer when there is even the slightest movement.

1. [Application.mp4](https://uofh-my.sharepoint.com/:v:/r/personal/pmadhago_cougarnet_uh_edu/Documents/AHD/Application.mp4?csf=1&web=1&nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=auIsIV)

The above video is the recording of the phone screen displaying the results of Bluetooth using the ST BLE Sensor Application.