**ECE 6372- ADVANCED HARDWARE DESIGN**

**SAFETY AND MANAGEMENT USING IIOT**

Team Phoenix

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1. [FinalPresentation\_TeamPhoenix.mp4](https://uofh-my.sharepoint.com/:v:/g/personal/pmadhago_cougarnet_uh_edu/EXnEiUTP2uBOkVXjcmARkyUBPE9glxLqR2ud6PHpJUe1cA?nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=IDKoNP)

This is the Final Project Presentation video

1. [Computer Screen.mp4](https://uofh-my.sharepoint.com/:v:/g/personal/pmadhago_cougarnet_uh_edu/EcXXXeg_3HhNpPgQpnEMCR8BxLn-_tLtDZYhj0ye3tjA7A?nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=VybhaD)

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:/g/personal/pmadhago_cougarnet_uh_edu/Ef-pv97DPeBHkYrIqoMkMfcB2y119IxebwhhUXtyw71xlw?nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=dFa7cG)

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:/g/personal/pmadhago_cougarnet_uh_edu/ESbZfkvpMRBOmAf7SewHEcABrZtI1CTx6sL7uCJLGIW9UA?nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=Oldvf1)

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:/g/personal/pmadhago_cougarnet_uh_edu/EQLse6rxHVREhVryagUQw_EBuTBFVC36IPPSry8FlwrBtQ?nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=QqepXw)

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:/g/personal/pmadhago_cougarnet_uh_edu/EarYJFqoGYpIs98OQxarUkwB7XFHM5kHoWkMFPyehoCbIQ?nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJPbmVEcml2ZUZvckJ1c2luZXNzIiwicmVmZXJyYWxBcHBQbGF0Zm9ybSI6IldlYiIsInJlZmVycmFsTW9kZSI6InZpZXciLCJyZWZlcnJhbFZpZXciOiJNeUZpbGVzTGlua0NvcHkifX0&e=Y6Ywaa)

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