Capstone Meeting 18

Date: 4/10/2018

Time: 6:10 PM to 6:30 PM

Update:

* Thorson currently working on the Schmitt trigger on the website and setting everything up for it
* PCB board is finished and working
* Poster is finished
* Currently collecting data for the implementation of the Schmitt triggering for the sensor values

Plan:

* Demo
  + Show changes in information
    - Ex: Temp via hair dryer, LUX via flashlight, PIR sensor via movement, etc.
  + Use a back-up breadboard just in case our PCB doesn’t work for X, Y, or Z reason
  + Backup SD card is made and ready in case of any failure
  + Setting up the javascript file and the python file to run on boot
* Work on making sure that our sensors are calibrated and accurate with comparison to measuring equipment, like thermometer, LUX meter, etc.
* Order additional sensors -- **Arrived**
* Device physical design
  + LUX sensor pointing towards the ceiling and the PIR sensor pointing out from the front, a decent distance away from the Pi. The temp & humidity sensor could be placed wherever
  + \*\*\*NOT MAKING ENCLOSURE\*\*\*
  + Currently using websockets for real-time values and keeping them open. Samuel suggested to not use websockets at all due to use of too much resources on both sides
  + Modify the device-side code for sending of data, currently pulling data once/sec and sending averages once per minute

Things that need to be addressed…

* Figure out next steps for the presentation of our capstone on expo day.
* Schmitt trigger needs to be setup as soon as possible on website