Capstone Meeting 16

Date: 3/27/2018

Time: 5:45 PM to 6:05 PM

Update:

* Thorson currently working on the Schmitt trigger on the website and setting everything up for it
* Eagle libraries made for the Si7021, TSL2561, and PIR Sensor
* Interim report done

Plan:

* Rough draft of board file was made for the PCB, Samuel reviewed it and gave the necessary changes needed
  + Need to use surface mount package for the resistor
  + Use the PI hat library onto the schematic so the PCB can attach directly on top of the PI
  + All traces to 15 mil since this is the specification for Samuels PCB miller
  + Use RIP command to remove previously created elements on board
  + Use mirror command to make the resistor on the bottom layer
  + Make the PCB (Work with Samuel on it)

Things that need to be addressed…

* Need to figure out place to put Raspberry PI so that it can connect to the MQTT server
* After place has been settled and working can gather test data for the implementation of schmit triggering for the sensor values
* Figure out next steps for the presentation of our capstone on expo day. i.e. new sensor addition? Simple control of something?
* Design of the physical device (Enclosure) hasn’t begun yet
* A way to turn the device on or off via a switch or button
* 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
* As the hardware team finishes up, they’ll need to tackle the poster and final report