Capstone Meeting 15

Date: 3/20/2018

Time: 6:00 PM to 6:12 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 mostly done, just need to finish the Methods and Conclusions sections

Plan:

* Think of packaging
* Make PCB for our sensors
  + Make Eagle libraries for our sensors and put them into one board, both in Eagle and in life
    - Schematic symbol and footprint
* 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 ontop 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

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 hasn’t begun yet