Date: 2/13/20

Start Time: 3:30 pm

End Time: 4:45 pm

Present: Nikolai, Tyrel, Zane, Joel, Dr Sheldon, Dr Rinker

Location: Innovation Den

Agenda: Zane will provide the updated project plan

Outcomes: Zane has provided an overview of what we will be doing the rest of the semester except for Joel since we haven’t worked out what else he can do.

We need to finalize the parts and order them.

To Do: Zane

* Order parts needed (a complete list of expected parts needed can be found in the project portfolio **pg. 87**)
* Finalize fault tolerance and fact checking within sensor communications
* Research and integrate power optimization strategies
* Testing of power consumption and sleep mode adequacy
* Shared resource optimization with Nikolai
* Testing of vehicle detection consistency and accuracy
* Designing and 3D printing final hardware enclosure
* Assemble a complete prototype / component and wire management
* Testing of mount hold for enclosure
* Testing of complete GSU
* Print, paint, weatherize and assemble the remaining 4 prototypes
* Writeup of system functionality (sensors, power consumption, etc.)
* Create Expo Poster

Nikolai

* Mesh communication development on Adafruit Feather boards without EEPROM
* Implement real-time clock for waking GSU periodically
* Implement sending messages between GSM to a specific GSU and have GSU act on it
* Synchronization of GSU’s on startup
* Resynchronize Feathers so communication can happen periodically
* Mesh network test report
* Work with Zane to establish data structure/storage to hold messages waiting to be sent
* Further testing /optimization of mesh network
* Set up GSG to receive messages from GSM, and install on Den roof. Weatherproof GSG
* Set up downstairs Den server
* Expo Prep

Tyrel

* Finish graphical garage.
* Create method to provision units to a spot within the graphic environment.
* Testing of Simulation
* Duplicate data format within simulation.
* Translate data from format to something the graphical environment can use.
* Testing of Simulation with complete GSU
* Create Instruction Manual
* Expo Prep