Date: 3/5/20

Start Time: 4:00 pm

End Time: 5:00 pm

Present: Nikolai, Tyrel, Zane

Location: Discord

Agenda: Dr Sheldon is unwell and wants a status update especially from Joel and Tyrel since they weren’t present last week. We decide to use discord instead of going into the Den.

Outcomes: Joel didn’t respond to the meeting nor was he present. He has not said anything on Discord in over a week either so we are assuming he is MIA now and will need to proceed without him.

Nikolai

* Have split up the networking portion of the software into smaller components and prioritized them based on what we absolutely need and what would be considered nice to haves
* Have assembled the Feathers and attached antennas
* Received the DS3231 RTC’s and the batteries
* Will be working on getting the GSU to wake up on a timer from the DS3231, make the GSM go to sleep on a timer and wake up periodically to receive messages
* Will simulate the GSG with one of the Feathers so that we can do a demo of the entire system before/after Spring break (if we haven’t received the gateway yet, otherwise it will be done with the gateway)
* Use the ID that is now being generated as a way to use addressing for LoRa messages

Tyrel

* Working on interfacing Python with unity. It is difficult because python does not have a direct call to C#.
* The python script that simulates cars arriving will ultimately generate messages for the gateway to "receive." I need to then take the messages received and write some code to inject data into the unity environment. I have been trying to do all that in python, but I might change that part of the code into c# somehow. That is the piece I need to figure out right now.
* Will take on tasks that were going to be assigned to Joel if he ends up dropping –the VNC and working on the gateway
* Ordering the gateway, had been discussing it with John

Zane

* Has received 2 Feathers to build into full-fledged GSU’s
* Will be putting the Arduino sketch that Nikolai has created on Github and add the sensing portion of the software
* Going to start assembling enclosures
* Ordering filament for 3D printing
* Had been having issues with 5V version of sensors and will order 3.3V ones instead

Joel – these were his tasks prior to going MIA

* Wiki page
* VNC
* The gateway and server
* Encryption of LoRa messages

The encryption was a new project part for him to work on.

To Do: Email Dr Sheldon with a status report update.

Forgot to upload the previous version of this to Blackboard. Need to ask Dr Sheldon if the updated one can be combined with the older and uploaded together.