Date: 9/26/19

Start Time: 2:00 pm

End Time: 3:00 pm

Present: Nikolai, Tyrel, Zane

Location: Discord

Agenda: Zane was sick, and Tyrel was busy at work, so we didn’t have an in-class meeting but instead talked on Discord.

Nikolai has filled out most of the Product Requirements Spec, the main part remaining is electrical research and batteries.

Outcomes: We don’t have a lot of room for batteries – 4” x 4” x 4”.

Weight of the GSU with batteries will be an issue.

Arduino Unos use a lot of power even in sleep – 15.5mA according to documentation so that is out – a 2500 mAh battery would be drained in a week at that rate.

Regular batteries like AA or D batteries are probably not going to work – 6 V 10,000 mAh in AA’s requires 16 of them.

Zane found in his research the Arduino Pro Mini which uses only 4.2 uA in sleep.

A good LoRa module looks to be the Adafruit RFM95W and use 0.2uA in sleep mode.

To Do: Keep researching hardware and batteries – everyone

Continue work on product requirements specification – Nikolai

Continue work on schedule + Gantt chart – Tyrel