

EE / CprE / SE 491

**Project title: Small-Form-Factor Solar-Powered Self-Sustainable IoT Sensors with
Long-Range Wireless Communication**

September 09 – September 15

Group number: 7

Client &/Advisor: Dr. Huang and Dr. Lu

Team Members/Role:

Qin Xia -Sensors

Chuxin Chen -Arduino

Lun Zhang LoRa Wireless module/Arduino

Yuchen Zhao - LoRa Wireless module/Arduino

Luke Healy- Arduino/Sensors

Calvin Condo - LoRa Wireless module

Weekly Summary

The objective of this week was to familiarize ourselves with the project and meet with our clients, Dr. Huang and Dr. Lu. On Tuesday, September 9, our team met with our clients and cleared up any confusion or obscurities that we had with the project and gathered a list of requirements and tools needed for the project. On Wednesday, September 10, we obtained an Elegoo Uno R3 to begin familiarizing with the environment we will be working with. Finally, we discussed the work that needs to get done and decided to split the team into groups. The roles that each member of the team decided to work with are outlined above.

Plans for upcoming week

Now that we have broken into groups, we plan to familiarize ourselves with the tools we have been given. The sensor team is waiting on Dr. Lu for the sensors we will use on the Arduino, however, they will start playing around with it to familiarize with the software and hardware. The LoRa wireless module team will have to research the component they will use for the project, and discuss with our clients to find a suitable part.