

Group number: May 1715

Project title: Internet of Machines

Client &/Advisor: Vermeer, Keith Bryant and / Dr. Sang Kim

Team Members/Role: Dean VanEvery/Team Leader, Cody Lample/Key Concept Holder, James A Kluesner, Matthew Gustin/Webmaster, Sam Ellis/Communications Leader, Kojo Otchere-Badu

O Weekly Summary

In this last working week of the project, we addressed concerns found during the first attempt to put the individual components of the project together. We also finalized our poster which will be used for the final presentation and began work on the final documentation for the project. This included updating the readmes of each project repo in addition to documenting hardware and testing in the updated design document.

O Past week accomplishments

- Matt Gustin –
- Dean VanEvery – Tested the transmission range and reliability of the LoRa transmission module in both Line of Sight, and Non-Line of Sight conditions, and finished transmission scripting.
- Sam Ellis – Created sensor data packetization script, implemented gateway code on hardware
- Kojo Otchere-Badu – Made updates to the team website and worked on setting up a second raspberry pi for sensor reading.
- Cody Lample -
- James Kluesner – Began work and completed the project poster. Worked to finalize how the LoRa system interacts with the rest of the project components.

O Pending issues

A few small hiccups in transmission and task scheduling continue to occur, but have been steadily tweaked.

o Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Cody Lample			23
Dean VanEvery	LOS/NLOS testing, Tx Scripting	8	28
James Kluesner	Project Poster, Working with combining data collection w/ Tx/Rx	6	27
Matt Gustin			28
Sam Ellis	Packetization code, implementation	4	29
Kojo Otchere-Badu	Sensor sampling setup for second Pi.	5	28

o Plan for coming week

Work on the presentation and final document for the project.

Hammer out issues that may come up in the demo of the full project.