EE 492 WEEKLY REPORT 3   Date: 1/25/17-1/31/17

Group number: May 1715

Project title: Internet of Machines

Client &/Advisor: Vermeer, Keith Bryant / 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**

This week we received some of our parts from our sponsor, and began work with the transmitter side of our project. Planned around the large variety of sensors given to the team for data collection.

o **Past week accomplishments**

- Matt Gustin – Outlined database fields
- Dean VanEvery – Assisted Sam with database
- Sam Ellis – Discovered solutions towards managing security of database requests via a WAN connection.
- Kojo Otchere-Badu – Configured raspberry pi and began sampling of sensor data via a terminal.
- Cody Lample - Installed dependencies for sensor kit
- James Kluesner – Configured Pi w/ ArduPi library to interface with LoRA

o **Pending issues**

We're still unfortunately missing a lot of key parts, including the two LoRa modules required to send and receive data and more than half of the required microcontrollers. We will hopefully have enough work to cover in the weeks leading up to getting the rest of the parts.

o **Individual contributions**

NAME	Individual Contributions	Hours this week	HOURS cumulative
Cody Lample	configured Pi for sensing data	2	4
Dean VanEvery	Assisted Sam with database	1	3
James Kluesner	Configured Rx/Tx Pi	2	6
Matt Gustin	Outlined database fields	2	6
Sam Ellis	Researched Database security.	2	5
Kojo Otchere-Badu	Began sampling of data.	2	4

o **Plan for coming week**
Begin regular weekly meetings with advisor, begin project team meetings on individual components.