

*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**

Connected the arduino and raspberry pi modules to pipe data from raspberry pi-based sensors to arduino-based LoRa shield. Refined packetization of sensor data on node side, and refined transmission script for database manipulation.

o **Past week accomplishments**

- Matt Gustin –
- Dean VanEvery – Began Scripting receiver conversion
- Sam Ellis – Refined testing script, added script to generate dummy data & json
- Kojo Otchere-Badu – Tested code for forming packet
- Cody Lample - Cleaned up C code formatting. Performed sensor testing.
- James Kluesner –

o **Pending issues**

Still having issues with properly chaining data between raspberry pi and arduino modules.

o **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Cody Lample	Test LoRA range and continue to clean up code	2	20
Dean VanEvery	Began Scripting receiver conversion	2	15
James Kluesner		3	
Matt Gustin		2	
Sam Ellis	Added cache functionality to database script	2	21
Kojo Otchere-Badu	Tested code for forming packet	1	20

o **Plan for coming week**

Devise a way to pipe data from receiving arduino to receiving pi to the database. Begin testing transmittable distance for the two modules, as well as testing transmitting with obstacles.