

sdmay18-23: Internet of Things, Data Analytics for Snow Plow Truck-Data Live

Week 16 Report

March 24 – April 6

Team MembersAlan Peine — *Git Master*Colin Heinrichs — *Test Engineer*Evan Warych — *Report Manager*Michael Entin — *Meeting Reporter*Zachary Wilson — *Meeting Facilitator / Point of Contact***Summary of Progress this Report**

Finally, as it has been a “pending issue” for most status reports, GPS data conversion and storage was completed during this reporting period. It was the main goal as it was one of the major features left out of the product as the development period ends. In its current state now, the data logger conversion service will accurately log GPS data and store it to its respective truck in our data base. A few other additions were also made to the data logger conversion service which will make front end presentation easier, such as truck id creation and use in logging. This was previously hard coded and a useful feature for database queries. Finally, a few drafts for the final presentation were made, but most work on that is yet to be done.

Pending Issues

As GPS data is now only stored in the database the issue of presenting it on a map overlay is the next challenge to the feature. The feature will be using the google maps API so while very reliable a bit of a learning curve to use it may be necessary in the next reporting period. Other open issues that have been tasked out are redundant logs to help with the amount of data being transferred and presented, creating a better website navigation, and user authorization so only Henderson can view this data.

Plans for Upcoming Reporting Period

This will be the final development reporting period so tasks are divided as such:

Colin: Data Loggers

Alan: Creating deployment service of new data logger scripts to actual hardware

Mike & Evan: Visualize GPS data on website and create backend support for user authorization

Zach: Finalize design of website and creation of user authorization forms.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Alan Peine	GPS data logger service	7	107
Colin Heinrichs	Data logger code redesign and GPS data sending and conversion	13	107

Evan Warych	Presentation and task planning	6	95
Michael Entin	Presentation and task planning	4	110
Zachary Wilson	Front end data presentation	8	102