

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

Week 17 Report

April 7 – April 20

**Team Members**Alan 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**

Being the final development period before presenting the final product next week there was plenty of time spent finishing features. Beginning with the Data Logger Conversion Service, a few changes were made to aid with data on the front end. The datetime attribute was changed to be stored in milliseconds since epoch, this helps with date ranges when displaying front end graphs. Logs are now also filtered for redundant data and downloadable from the web application. Finally, an executable was created so our DLCS can be installed on a datalogger. On the front end of the application the GPS tracking displays were implemented. This includes a map showing the last position of every truck on the home page, clicking on the truck will bring you to its data which also includes a map of all GPS points in a time frame. Outside of the actual project there was also time spent preparing the final poster and presentation.

**Pending Issues**

The application is pretty much ready to be handed off to Henderson Products. The only thing missing is a user guide that will document the application and how to continue its maintenance. So that will be an important part of our final report that will be worked on next.

**Plans for Upcoming Reporting Period**

Work to finish our final report of the application and presenting the final product to the panel and client.

**Individual Contributions**

Team Member	Contribution	Weekly Hours	Total Hours
Alan Peine	DLCS exception handling, datalogger deployment, and poster work.	19	126
Colin Heinrichs	DLCS additions, Log maintenance, and poster work	28	135
Evan Warych	Worked on GPS map implementation and poster design	18	113
Michael Entin	Back-end routing and data transfer for GPS	20	130

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	data, and requesting data over a time period		
Zachary Wilson	Front-end development and groupwork	15	117