ELET 4780 – Senior Project 1 – FALL 2015

To: Elias Kougianos

From: Chris Harris

CC: George Dunson

Date: 11/01/2015

Re: Senior Design Weekly Report – TEAM 1

# Overview

We have decided to look at Goolge services and the amazon AWS service instead of the Thingspeak service to visualize our data. Since the Thingspeak serivce can only handle an update post every 15 seconds, this is too slow for us to send data in real time. Instead we want to save the data we get in memory then post it to a website service after the collection has completed. While this is can happen on the Thingspeak service, (in the form of uploading a CSV file) there is currently no way have a batch update (sending multiple points of data or a file at once) with this service. With that in mind we are looking at Google's services to help compile and publish this data. We have also looked at the Amazon AWS service to control our device and talk to the other parts of our systems (such as the database or google service we use) though this will be implemented later.

# Completed Tasks

* Assembled the breakout boards.
* Interfaced Edison with computer.
* Ran test programs to verify Edison capability.

# Ongoing Tasks

* Research Amazon AWS, Google services.
* Read datasheets and reference.
* Configuring the I2C interface.

# Next Week’s Tasks

* Getting familiar with existing C libraries on the Edison
* Create block diagram of program flow and start writing some pseudocode.
* Decide on data visualization service, setup prototype.

# Interaction with the other team members

* George and I met Sunday for around 5 hours to work on configuring I2C and to try to send batch data to Thingspeak. Tryed to Find alternates to Thingspeak and research Amazon AWS.
* Got together each day in spare time between classes to brainstorm about Thingspeak feasibility and to implement test programs on Edison.