ELET 4780 – Senior Project 1 – FALL 2015

To: Elias Kougianos

From: George Dunson

CC: Chris Harris

Date: 11/08/2015

Re: Senior Design Weekly Report – TEAM 1

# Overview

This week we spent quite a bit of time working on the acceleration sensor, we are writing the firmware from the ground up which has proven to be a daunting task. Once we gained access to the Saleae logic analyzer things started moving along at a nice pace with the I2C protocol. The initial problem we were having was that the Linux distribution we chose did not have the I2C development libraries installed by default, without the logic analyzer we could not tell if the data we were getting from the sensor was garbage from the registers or if we were talking to the device at all. We were able to sort out the connection issues we were having with the Edison and the UNT networks. By troubleshooting on another Linux box in the lab and finding other University students that had issues with the eduroam network we were able to figure out just which configuration files to edit to allow the Edison to connect to the network.

# Completed Tasks

* Solved network connection issues
* Made progress with the I2C interface

# Ongoing Tasks

* Considering options for publishing content to the web

# Next Week’s Tasks

* Continue work on the firmware
* Make a decision on web hosting for sensor database

# Interaction with the other team members

* Met with Chris on Tuesday for 4 hours to work on firmware design.
* Met on Sunday to finish the slide show presentation for Monday 11/09/2015.
* Got together each day in spare time between classes to discus what we had been working on and ask questions if a group decision needed to be made.

# Unresolved major issues (if any)

* None.

# Weekly assignments (if any)

* 2nd presentation for Professor Kougianos and our Senior Design class will be Monday 11/09/2015.