Memorandum

(Group L2B1)

To: David Michelson, Associate Professor, UBC

 From: Haleh Rezaei, Student

Date: February 2th, 2014

Subject: Weekly Review

Dear Dr. Michelson,

This week we started the actual implementation of the Spectrum Analyzer. We started our implementation by dividing the tasks within our group members. Three of the group members are assigned to work on the hardware and two of the members are responsible for the software part of the project. After dividing the tasks , our hardware group started implementing the Peak Detector and also ordering the necessary parts for other blocks of our design project .Our software group got familiar with MyDaQ and Labview . We did not face any significant problem during our implementation.

In the hardware part of the project, we started by implementing the Peak Detector. In order to get the desirable output for the Peak Detector we watched online videos and we looked into some research papers. We implemented our Peak Detector using different Capacitor and Resistor values and tested each combination multiple times to ensure the output is desirable. Then we got familiar with the Logarithmic Amplifier and Crystal Ladder circuits. We also searched online to purchase the necessary hardware parts for our project; however we realized that the cost of our hardware parts are way less than shipping cost, so we talked to other groups in order to purchase the parts together and divide the shipping cost among the groups.

On the software side , our group members got familiar with myDaq and Labview. They got familiar with the user interface and different built –in functions of Labview and myDaq . They also learned the uses of high and low pass filter, shift register, and different logic gates in Labview .

This week we are going to check out some local stores to find our hardware parts and we are going to implement the Crystal ladder circuit. Our software group will start implementing and coding.

With Regards;

Haleh Rezaei