Project Identity

Expert Anesthesia Monitoring System
Week 3 (September 17, 2007-September 24, 2007)
Timothy R. Morin

Work Completed

This week I continued to work on the Labview program that would retrieve data from the Ge-Marquette through the Ethernet connection to the Hartford hospital network. We believe we have a working code that will be function and will act as a listener through the network with no possibility of writing on to the network seeing as this was a request of the client.

The biggest part of this past week has been consumed with trying to get Labview running on our laptops. This involved getting codes from Newton DeFaria whom seemed to have lost our initial email to him. We have completed the set up, and we have transferred our code to the new computer and tested it on there and it seems to run perfectly even through the University of Connecticut wireless network.

We spent a great portion of our time working on the quarry portion of our program just to find out that it was not necessary. We spent time on this because it seemed that through the manual for the GE-Marquette that the data would have to be called to be sent and it seemed that most people that we discussed it with agreed that quarry would be the best way to retrieve data. Once we talked to Dr. McIsaac about it for the second time he told us that it was definitely not necessary. He told us that he was familiar with the fact that the GE-Marquette was consistently sending data and that we could just listen to the network. We also decided that we would work on that because we were severely halted by the fact that we couldn’t test due to a lack of a portable device that could run Labview and allow us to bring the program to Hartford hospital.

The newest and most recent Labview program that we have designed is very simple in appearance which is exactly how Dr. DeFaria recommended it to be. We took out most of the extra’s and unnecessary parts that would just make it more clear what was going on and made it just functional to start. The other parts can be put back in as required for visual aid on the front panel. The data that is being saved is the rawest form, which is good for now because we will be able to tell exactly what translations need to be made. We have also designed a few different programs similar to figures one and two, to make sure that when we go to test them on September 25, 2007 that we will have multiple programs incase some do not work the way we expect them too.
Figure 1: Front panel of our Data acquisition program.

Figure 2: Block diagram of our Data acquisition program.
Future Work

This week we will be testing our programs and make sure they work with the Hartford hospital network and through the Ethernet. We also want to inquire about the database’s that we can possibly use through University of Connecticut to store data. Dr. McIsaac as requested that we try to use Oracle to store data and he said that he believes we have licensees for that already through the University of Connecticut. If that works out and we find that our program properly acquisitions the data from the network then we will continue onto parsing the data.

Project Review

So far we have made progress, but the last few weeks have started to slow due to waiting on contacts for help with certain things. We had a big stall with a misunderstanding where we had been waiting because we thought our contact was just away for awhile but then realized that for some reason our email did not go through. This was a huge set back because we did not want to be push and we were trying to be patient. We finally obtained the information necessary to run Labview on our personal PC’s which makes it much easier for testing and work at home.

Hours Worked

Hours spent on project between (9/16-9/22), Week 3: 15