Week 4 Report

Work Completed

This week I continued to focus on the programming of the LCD remote control. I made changes to the main menus and sub menus for the device. I was having difficulty trouble shooting the errors in my code and decided to go a different direction with the device interface. I created a set of controls that will remain at the top of the LCD screen so that the user will be able to access any function of the device from any screen in the menu. This way the user does not have to continually go back to the main menu to access certain aspects of the interface during operation of the device.

I also was able to alter the bargraph function of the device. I was able to create a much larger and more visible bargraph for the device. I also created a percentage scale next to the graph and increased the size of the percentage output to the right of the device. I also created a sub routine that would allow the user to just see the numeric output without the graphical display if that is preferred. The program will also have a calendar and will be able to display the time of day.

Figure 1 – CUTOUCH
Artificial Sphincter

Alan contacted me on Tuesday saying that he had been out of town and that had delayed his communication with me. He has received the agreement from his legal department and will be sending it to Dr. Enderle Wednesday or Thursday. Once he receives the agreement he will be sending us parts for our project. He has also shown interest in having a conference call with the team to discuss our plans for the project.

![Figure 2 – AMS 800](image)

Wireless Communication

This week I also set the wireless Acode 300 up on the protoboard and tested the function of the device. I connected an LED to the two chips which provides an indication that the device is powered and ready to function. The Acode 300’s will not require any individual coding themselves. They are even programmed to search for each other once powered up. The devices will simply act as a serial cable for the connected devices. This will help add to some simplicity to our project.

Future Work

This coming week I will continue to debug the program that I have written and continue to add functions to the already existing code. Also I am planning on beginning to pair the LCD and the CB220. I would like to simply connect everything and send a simple signal back and forth, maybe something as simple as lighting an LED, just to get a feel for how the device will function as a whole. I also will be creating a circuit with transistors to take the 5 volt output of the CB220 and creating a constant 3.3 volts to power the wireless transmitters and the micro pumps.

Hours Worked

This week I worked 12 hours. Most time was spent programming and troubleshooting the LCD remote control code. Some of my time was spent setting up the wireless transmitters.