Week 6 Report

Work Completed

This week I again focused on the programming of the LCD Remote Control for the device. I continued to work on the coding for controlling the micro pumps. I also created the test setup for the artificial bladder and stretch sensor.

Programming

I continued to focus on the LCD Remote Control. I worked on the subroutines that will control the contraction of the device. There is still a lot of work to be done in the programming and actually connecting the pumps to the device to be controlled by the remote. I think for the initial testing of the device I will directly connect the pumps to the LCD by wiring them and bypassing the wireless portion of the device so I can check the code to control the pumps. Once I know the code works as it should I will then use the wireless to control the devices. This will help narrow troubleshooting issues in the device programming.

Figure 1 – CUTOUCH
Artificial Sphincter

Dr. Enderle informed us that he received the confidentiality agreement and signed and returned the document to Alan. Alan informed me that he will be sending a couple of cuffs for us to work with along with a video of the surgery to implant the devices. He feels that we should do some work with the device and then further contact him with any questions that we may have. I am expecting to receive the cuffs sometime this week.

Future Work

This coming week is spring break and I plan on spending a significant amount of time in the lab to try and get a good jump on the device. I am hoping to receive the sphincters this week so I can order the necessary parts to connect the device to the micro pumps. I will also be finishing up the programming to control the pumps and the wireless transceivers.

Hours Worked

This week I worked 10 hours. Most time was spent programming and creating the artificial bladder setup.