Work Completed

This week there was a lot of work done on the enclosure for the LCD screen and battery system. The black ABS plastic was cut into the component pieces at the UConn Machine Shop. All six sides were cut with 45 degree angles on their ends to allow for a more finished look. The screen enclosure is about 8 inches long, 5.25 inches high and 2.5 inches wide to accommodate all of the inner components. Once the cut-outs for the screen are made, we can cut some mounting brackets out of metal or plastic to secure everything in the casing. Figure 1 shows me holding some of the end walls of the screen enclosure into the shape that it will be glued into.

Figure 1: Screen Enclosure Cut Pieces
I confirmed that the glue we will be using is in Hartford at the UPS warehouse and we should be receiving it soon to assemble the screen enclosure. Other parts that were received were the mounting system for the screen. Although, I did have to reorder one nut and bolt kit, because one kit only comes with one nut and bolt, and we need two nuts and bolts. This extra cost will be $0.37 for the two pieces (without shipping and handling).

The joystick enclosure and all components are complete. The USB cord is installed permanently, the Specs Switch mono jack is soldered into the button wires that already exist on the joystick, and all of the wires are neatly held together and organized in the enclosure. Figure 2 shows the inside of the joystick enclosure with all of the integrated wires that we added to customize the joystick.

![Figure 2: Inside of the Finished Joystick Enclosure](image)

**Future Work**

As we tested the final connections for the LCD screen, rocker switch, battery pack, and charger, all of the components worked properly and showed to be successful. This week I will make the final cut-outs on the ABS panels and begin to glue them together, if the glue arrives by Friday. We will then install the components and test our completed screen system. The mounting will then be added to the back side of the screen enclosure.
Project Review

Our project will be completed within the next week and all final tests will be performed. We are still waiting to hear when we can bring the completed project to our client, so until then, we can work on or various reports and user's manual. We did go over budget, but the final amount will not be known until we get the credit card statements from the 80/20 Inc. order. Our timeline is ahead of schedule and we should be complete within the nest two weeks.

Hours worked: 11