Project Identity

Versatile Painting Solutions
Week 11: 4/12/06
Melissa Banks

Work Completed

Friday we finally received our 80/20 parts. We did any machining to them that was needed. Unfortunately complete assemblies were not included as we asked and we were missing a couple screws we needed. We instead removed these screws from the pivot bracket and used them for the two horizontal movement joints. We experimented with washers and tightened down these joints to achieve a perfect range of horizontal movement. We received the T-nuts that we needed and were given the screws we needed from another group. This allowed us to attach the 180 degree pivot brackets to the piece of 80/20 that slides along the vertical post. We also re-threaded the piece of 80/20 that is located at the 180 degree pivot bracket. This thread was made longer so a longer screw could be used making our project stronger and more stable.

Sunday Dan and I came in and solved any problems that were caused by missing 80/20 parts. We used extra bolts and pivot brackets at the joint instead of the very specific screws that we were missing. This allowed as to assemble the whole project (figure 1). We tested any adjustable parts. We were not satisfied with the slide on the vertical post as it is viably a source of instability. This can be seen with the flex in the stock attached to the pivot bracket. I also started sewing down the adhesive Velcro. This was more difficult then planned for. The adhesive gums up the needle. Once our project is disassembled I will take the support to a sewing machine.

Monday I worked on the paper. I made a template and started working on sections.

Tuesday we had a group meeting. Noah is going to 80/20 to get a slide that attached to stock on 3 sides for greater stability. We also made a change to the joints adding an extra 3” straight pivot bracket. I worked on the paper as well this day.

Wednesday machining will be done. This means I can take the support to sew on the Velcro. Once put back together the lower edge can be sew up quickly by hand. More work will need to be done on the paper.
Future Work

Mostly I will be working on the paper and other deliverables due in the near future. Any sewing will be finished on the cushioned support as machining of the sections is wrapped up.

Project Review

Construction will absolutely be done before this Friday. Testing will be finished as quickly and efficiently as possible in lab. Modifications are being done to increase stability. These should be quick fixes that make a big difference in the quality of our project.

Hours Worked:
Friday- 4
Sunday- 2
Monday - 3
Tuesday-2
Wednesday- 3
Total: 14