Work Completed

This week the group finished up small adjustments on the table. This included reinstalling the metal bars under the sides of the table. These bars give more stability to the center region of the table, since it is less likely for the table to torque with the bars. This is necessary in situations where large loads, such as a person sitting on the table, are situated in the center of the table. Without the metal bars, the tabletop deformed a small amount and was not stable. The table still raises perfectly with little to no sticking in the adjustment legs. Also, the table raises very level and the tabletop does not torque during adjustments.

Meanwhile, the group also worked on the operations manual. I was responsible for writing the introduction, in order to introduce the table to the people at Passion Works Studio. Additionally, I made the drawings which supplemented the remainder of the operations manual. The following figure shows how to raise the table.

Figure 1: How to raise the table.
To adjust the height of the table, it is necessary that the unibearings be unlocked. In order to do this, one would follow the instructions in the following diagrams.

Figure 2: How to lock or unlock the unibearing.
The group also started working on the final report. We chose to take a bottom-up approach to writing the report, where all the components have a separate section. The sections were divided up amongst the team members. I am going to focus on the unibearing mechanism, since this is what I have been working on the entire semester.

**Future Work**
Next week we will be working on the final report. Since all of the individual parts are already divided up, we will just need to put them all together and then smooth everything out. Also, I have arranged for a student from the Center for Students with Disabilities to come in and test the table with us. This will be done on Tuesday. After the final report is completed, we will then work on the power point presentation.
**Project Review**

The project is complete, all we need to work on are the final reports. We also just want to test the table out with a student who uses a wheelchair just to make sure everything works OK. We expect to be done with everything by the end of this week. After the final report, we need to work on the poster and the power point, and then present everything at the engineering senior design presentation day.

**Hours Worked**

8 hours