Work Completed:

During this week the drawings for the machine shop work were finalized on the transfer board, and then Christen took the board into the machine shop early one morning and milled the slots for the arm and leg stabilizers. There are four slots total, two for the arm stabilizers and two for the leg stabilizer, each of which being on the outside of the board about an inch in from the edge. A digital image of the board with the slots appears as follows:

During lab this week we also made the machine shop markings on the smaller pieces of PVC which will be cut into the arm stabilizer portions. Also during this week a lot of time was spent on searching for the correct pieces of PVC in order to use as the supports on the transfer board which will help it to resist flexion. As a group we decided to use two pieces of rectangular PVC stock 1.5”x1” along the total length of the board on each side, as well as three 1”x1” PVC stock sections on the underside of the board. The purchase order for these parts was turned in last Friday, and we were ordering them from a company called United States Plastic Corp, however we were just informed that it may take awhile to get the material from them. We are now in negotiations with modernplastics.com and they are in the process of making us up a quote, for they do not regularly sell PVC stock.
Future Work:

In the following week there are a few important tasks that we must get accomplished. First, we have to be sure to get the purchase order for the transfer board support pieces finished, and install those components as quickly as possible so that we can start installing the arm and leg stabilizers. This week in lab we also discovered that the previously planned set-up and position of our arm stabilizers might not be sufficient. This problem would have been very hard to notice in the design stage, for it was not present to our eyes until I actually got up and laid down on the transfer board in the desired position. The following is a digital image of the desired patient position on the transfer board:

![Digital image of desired patient position on transfer board]

We originally had the arm stabilizers coming straight up vertically from the transfer board, however this position could prove to be not only uncomfortable to the patient but also may not aid in the positioning. New ideas for the arm stabilizers include using something taken from the 80/20 demonstration, or some sort of elastic locking device. This following week along with improving the arm stabilizers we also need to agree on what type of handles to use for the transport of the transfer board as well as the location on the board of which to attach the handles.

Project Review:

The project as a whole is still coming along nicely. The discovery of needing to alter the arm stabilizers is not necessarily a bad thing, because improving them will in turn improve the overall design and should make the design more versatile. We are still on schedule because in planning out the building process we anticipated having to alter the major components of the design.

Hours Worked:
Each member of the group was present and working for the full four hour lab period on Friday, and then all of us put in an extra 2-3 hours of time brainstorming and planning, and Christen worked for another hour or two in the machine shop on the transfer board.