Work Completed:

During the second week of design 2, I was able to complete the milling of the slots in the board that are to be used for the track system that can be seen in figure 1.

Figure 1. Slots for track system
As a group, we designed cross members to be used to make the transfer board more stable. I did stress analysis for the cross members of our board which showed a large reduction in the total stress. Along with this, our group agreed on and ordered the hand knobs for the tack system, as well as the materials we are using to fabricate the cross members on the board. It was also decided that the arm stabilizer which we have in our design will not work as is and that a new design for this needs to be created.

**Future Work:**

During the next week, plans are set to start construction of our cross members when the parts arrive. Bhavin and I will use the machine shop to cut the pieces ordered to length. Along with this, we as a team will create a new design for the arm stabilization portion of the design. We will also be designing the device that secures the leg stabilizer bar during use of the positioning aid.

**Project Review:**

Currently I am meeting the objectives set forth for me. We do not have the base of the positioning aid completed yet, however no last minute action is necessary.

**Hours Worked:**

BME lab – 7 hrs  
Machine Shop – 4 hrs  
Outside Lab – 2 hrs  
Total hours – 13 hrs