Work Completed:

During the Sixth week of design two I have almost finished the arm stabilizer. The major portions of it are now complete, and only small things need to be done to make it look nicer. I was able to reduce the base of the stabilizer in the machine shop with the chop saw. Also, I was able to mill the slots in the base which would allow the whole stabilizer to be removed from the base without having to remove the knobs. The reduced base with slots can be seen in figures 1 and 2.

Figure 1: Slots in stabilizer base
The slots work very well with the bolts we have. I was also able to mark, cut, and tap the arm rest portion of the stabilizer using the chop saw and hand tap set from lab (see figure 3). The rest works well as expected.
I also tapped the bottom of the arm stabilizer rod so the hub could be attached. Along with this I tested gluing the UHMWPE pads from the bearings to the aluminum so we don’t have find aluminum screws. I will check the results Monday. On top of this I was able to help in ordering all the non-ferrous hardware for our project to replace the steel we are currently using.

**Future Work:**

For next week, I plan on attaching the arm rests to the bearings. I also plan on rounding the edges of the rest and the base so they are more aesthetically pleasing. If we receive the hardware I will switch out all the steel hardware. I will check the results of the gluing
and if positive, will start gluing the other pads. I will also start drilling and tapping the aluminum side runners so they can be attached when we receive the hardware.

**Project Review:**

I am currently meeting the objectives set forth for me and am on schedule. No immediate action is required at this time to complete the project on time. We are hoping to have the prototype done by the end of the next week so we can start testing.

**Hours Worked:**

BME Lab – 6 hrs  
Machine Shop – 4 hrs  
Independent work – 1.5 hrs  
Total hours – 11.5 hrs