Work Completed:

During the fourth week of design I priced silicon bronze bolts for our project, and purchased steel hardware, which is cheaper to test with before we purchase the others. I also drew up the design for our arm stabilizer bases (see figure 1), and then cut them out of the stock piece using the mill to make sure they were square and cut to size.

Figure 1. Arm stabilizer base

I was also able to drill the hole for the bolts which will act as the track system. The bases can be seen in figure 2.
Assembled arm stabilizer base

This allowed us to attach the arm stabilizer bases to the board with the aluminum knobs we received from MSC this week. I also brought up the idea of using aluminum for our flexion stabilization, which we adopted due to the high price of the PVC. This will decrease weight, size, and price, while increasing strength.

**Future work:**

For next week I hope to receive the 80/20 parts, which can then be attached to the arm stabilizer base. By doing this I will be able to assemble the bearing and pivot portion of the arm stabilizer. Once this is completed I can work on the armrest portion of the arm stabilizer. I also hope to mill the arm track a little longer since the change in design demands this.
Project Review:

I am currently meeting the objectives set forth for me. No last minute action is necessary for me to complete the project.

Hours worked:

BME Lab – 7 hrs
Machine Shop – 3 hrs
Outside lab – 3 hrs