Work Completed:

During the first week of design 2, the group as a whole checked the received parts to make sure that they were what we ordered and what we wanted. All parts that were ordered were received and were what we expected of them (The parts can be seen in figures 1 and 2).

Figure 1. Board, pad, headrest, and rods
As a group we felt the board flexed more than we thought it would, and we looked into putting pieces of stock perpendicular to the board to strengthen it. I began to look for the hardware needed for the sliding mechanisms of the arm and knee stabilizer. I found appropriate hand knobs for the mechanisms made out of aluminum. I also decided the bolt part of the sliding mechanism can be made in the machine shop. I went to the machine shop to ask about welding the plastics for our design. However, they are unable to weld plastics as we thought we would be able to do. However they suggested that we use PVC bolts and PVC glue in its stead because the areas that were to be welded are not to carry great stresses.

Future Work:
During the next week, plans are set to decide what to do with the flexing of the board, and implement the changes in the design. I plan on ordering the needed components for the sliding mechanism. Bhavin and I will be working in the machine shop to fabricate the board. I will mill the hand holes in the board, along with working to take the sharp edges off the board. We hope to have the board completed by Friday.

**Project Review:**

Currently, I am meeting the objective set forth. The addition of the stock to the board to reduce flexing will need to be added into the timeline, but should not be a problem.

**Hours Worked:**

BME Lab – 4 hrs  
Independent lab time – 2 hrs  
Total-6hrs