This past week prior to Spring Break we were not very productive as there was a
snow day Thursday and a loss of power Friday afternoon, which are primarily the two
days the group puts the most hours in at the laboratory. However, now that break is over
and many of the ordered parts have come in over break we should be able to proceed in a
faster manner.

Upon arriving back from Spring Break we had received the MSC order we placed
right before break. We however, did not yet receive our order of silicon bronze from
Jamestown productions. Half of the order is to be received immediately, while the other
half of the order is on backorder until March 24th so we will just have to interchange those parts with the steel ones as soon as we get them in.

This week we continued to glue the plastic components of the L brackets to the 80/20 aluminum components and allowed some to sit over break and did more Monday and will finish the remaining ones Tuesday. The picture of the L brackets with the plastic components being glued to them can be seen below:

We also fixed the hand stabilizer bar by filing one of the ends of the bar to ensure a better fit at the angle. We then used PVC primer and glue to secure the end piece to the horizontal component and already attached other vertical component. This hand bar can be seen in the picture below:
Upcoming Week:

The completed hand bar will be put on the transfer board this upcoming week if the hardware we ordered is received we are going to either drill to sink holes into the transfer board and secure the bar via PVC primer and glue. Our second option of securing the hand bar to the board is the use of bolts up through the board into the bar.

This coming week the aluminum side rails will be put on the positioning board using silicon bronze bolts 6” apart down the entire length of the board. After this has been completed the PVC cross members can be attached using PVC glue.

Since both the leg and arm stabilizer components will be complete by midweek, we can do preliminary testing of our prototype simulating the disabilities that the patients have such as limited arm movement and leg movement and fragility in lab on Friday.
will also look further into getting patients lined up to test our prototype for the weight
capacity and ability to provide stability to those suffering from mild tremors.

   Early this coming week Bhavin will drill the holes into the ends of the HDPE bars
used for the leg stabilizer so that I can attached them to the 80/20 setup using the
hardware ordered from the MSC catalog over break. Christen and I will also finish
gluing the plastic parts onto the 80/20 aluminum brackets for the leg and arm stabilizers
to eliminate the use of any metal, since it was determined the glue is sufficient enough.

**Project Review:**

   We are currently on time, we anticipate having a completed prototype by next
Friday the 24th at the latest, which is right on track with the projected timeline for our
project. We just need to determine if we are going to order the custom pad or work with
the one we currently have, as well as order the handles and supplies for the storage of the
positioning aid.

**Hours Worked:**
3 hours Friday
3 hours Weekend
2 hours Monday
   =8 total hours