Work Completed:

This week we were able to get a good amount done, even though we did not receive some of the material we have been waiting on. We were able to decide on what material to use for the flexing of the base. We decided to go with aluminum for the sides and stick to PVC for the center so there will be no interference with imaging because of the aluminum. By changing the side material into aluminum we are able to save money and we ordered the material needed on Friday and are expecting to receive it this week. We also decided on a new design for the structure for attaching the pieces. Figure 1 shows how the new design will look.

![Figure 1: Top of Board](image)

Without other material the only thing possible was the base of the leg stabilizer. I was able to go to the machine shop and cut the pieces and then mill them to .75” by 2” by 12”. Figure 2 and 3 display how the setup of the track system will look once the .25” holes are made into the base of the leg stabilizer.
We were able to buy screws and bolts from a local hardware store. These will be for use until we decide on where to buy our aluminum from since it is expensive. PVC glue and primer was also purchased this week.

A change in the leg stabilizer bar is being considered and was talked about. Instead of having two arcs for cushions just to have one. This is displayed in figure 4.
Figure 4: Leg Stabilizer Bar

Future Work:

I will be finishing the leg stabilizer. I will make the holes for the screws from the track system and then mill them into slots. We plan on finally receiving the 80/20 parts and get started in the stabilizers using them. We also plan to get in our parts for the flexion mechanism and attach them to the board.

Project Review:

So far we have been meeting our timeline and have not fallen behind. We do need our parts in on time in order to stay on track. We might need to change our timeline a little since before we were all working together to finish one major component at a time but now we have split it up. This would require more time for each component, but multiple components will be worked on at a time.

Hours Completed:

BME lab: 6 hours
Machine Shop: 2 hour
Outside lab: 2 hour
Total: 10 hours