Past Week:

This past week we tested our positioning aid and all of its components on Drew, one of our team members. The arm bar worked as planned, the leg stabilizer bars also could be adjusted accordingly and with no problems. The arm stabilizers were also fully functional and we decided as a group to have them be used as a rest for the arm and therefore added additional protective padding to the horizontal portion of the arm stabilizer. This can be seen in the picture below and the rubberbands are simply being used to hold the foam in place while the glue dries:
The picture below on the left is of the lower body stabilizer and on the right is a picture of the main position the patient will be in while using the positioning aid:

The other task that I worked on this week was obtaining individuals with similar disabilities like our theoretical patients we are designing this aid for. I made up a flyer and posted it around campus with hopes of obtaining volunteers for our study.

Lastly, this week I focused primarily on the storage of the device and was going to purchase two hooks from Sears to attach to the wall that would support the board in the horizontal position with none of the attachments on it accept the hand bar which will not be removed from the board at any time. The hook can be seen in the picture below and they are moderately priced and able to hold up to 50lbs, which our board does not weigh more than.
Price at Sears: $5.99 each and would need two of them ($11.98 total)

The last component of storage that I was obtaining prices for was a storage case for all of the attachments when they are not in use. These however, can be very pricey and I wanted to see how important the storage ability of the device is in the competition because if it’s not a big factor on who wins, we may just scrap the idea to save money. The following are options I was considering for storing the various attachments:

This case can be found on the website: [http://www.scscases.com/store/Storm-iM2700-P11056C3119.aspx](http://www.scscases.com/store/Storm-iM2700-P11056C3119.aspx) and is $124.00 which included the foam inside or $104.00 without the foam inside the case. The dimensions of this case are 22" x 17" x 8". 
This case can be found on the website:

http://beaconww.com/pages/detail.las?lumCheckedFlag=&recordID=33712&subcat0=Gun&subcat=Guardforce&subcat2=Rifle-Shotgun%20Case&logo=beacon&-nothing and is $62.95 and available in a solid black exterior not the camouflage as pictured above. The dimensions of this box are 13.375” x 31.5” x 5” (L x W x H).

**Upcoming Week:**

This week we should be receiving the custom foam pad that we ordered and the group will be able to secure it to the board using the Velcro.

We will also make a final decision regarding the storage of the device and whether or not we should invest money in this or just leave it out.

Lastly, we hope to get some responses to our flyers that we posted for individuals with disabilities similar to that of our “made-up” patients. Although we are going to mimic the disabilities with members of our team, we feel that having actual people with the disabilities is the best way to be sure the design is fully function and can accommodate their additional needs.

Also we will begin to put together our user’s manual as well as update our website so that the judges will have a full understanding of our project.
**Project Review:**

We are currently on time, we are only waiting on the pad for the bottom of the board and we will be done with our prototype and able to meet the deadline of this Friday and start our work on the Final paper, presentation, user’s manual and website.

**Hours Worked:**

BME lab = 7hrs.
Outside lab = 4hrs
=11 total hours