**PROJECT IDENTITY**

Head-Mounted and Arm-Mounted Art Design Systems  
Week 8  
March 16, 2007  
Becky Lussier  

**WORK COMPLETED**

This past week has been as productive as it could be, considering that the senior design lab was cancelled due to snow. I had planned on attaching the main headpiece components together, but was unable to since I did not have access to the middle room where our helmet is located.

My team and I reviewed and discussed all possibilities for the SCATIR switch issue. We realized that it did not do exactly what we had planned on it doing. Sirisha and Nemi contacted Tash Inc, where we got the system from, and came to the realization that we would externally have to build a circuit that would interpret Stacey’s eyeblinks the way we want it to. Our team discussed maybe getting another eyeblink switch, but we felt that this was the best one on the available market. Plus, all of the switches are so expensive, so we do not want to deal with the hassle of returning it and then waiting for the next switch to come in before we can start work on that one.

I went to Wal-Mart, Radio Shack, and Mansfield Supply this week to pick up a few key pieces that we need that are too small in nature to order online or from catalog. I picked up another monojack so that we can attach the other TASH switch to our circuit, now having a place where we can sodder too. Also, I picked up new mounting brackets for our headpiece. Since our new head gooseneck has a smaller outer diameter, we needed new smaller brackets to attach the gooseneck to the helmet. I picked up a few different options that might possibly work for us, but we are going to use the plastic ones I got because they are of the most appropriate size.
I was able to get a hold of some special adhesive that is able to attach itself to many surfaces, such as plastic, metals, and fabrics. This way, we can use this for extra reinforcement when we attach the two separate goosenecks to the two respective head and arm systems. I also picked up a bicycle helmet. Our team wanted to add a chin strap to our helmet so that it is able to stay on Stacey’s head better. This also ensures that the weight is even more equally distributed and better kept secure by this extra strap. This was something that Passion Works had first included in the project description they seeked.
FUTURE WORK

By the end of this week, I would like to attach the head gooseneck since I was unable to during the storm. Basically, I would like to finish all of the mechanical assembling of our projects done within this next week that we were unable to get to in the lab on Friday. This would only leave the electronic portions to work on. I also plan on making a final decision on what art utensils to buy for Stacey to use at the art studio.

PROJECT REVIEW

As of right now, our team is running behind a bit since we did not get to work in the lab on the snowday. Now that we have access to all the stuff we need and bought some extra smaller parts we needed, we will be able to assemble the main parts of our devices. The most time consuming things I see coming for our projects is writing the programming for our microcontroller and getting our circuitry to work correctly. We also need to construct the external circuit that will make the SCATIR eyeblink switch operate in the way we planned.

HOURS WORKED

In Lab: 5
Outside of Lab: 4