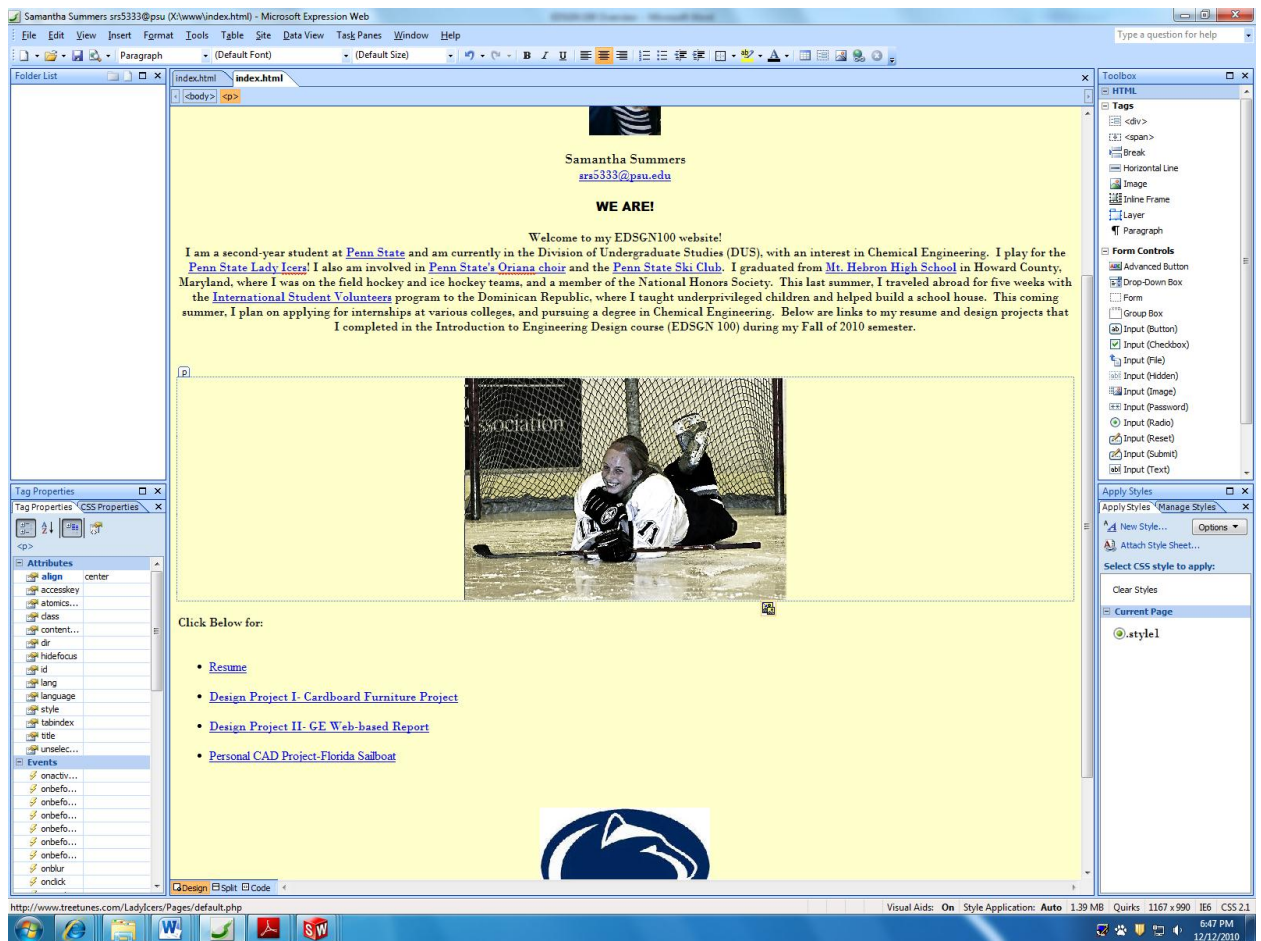


# EDSGN 100 Overview

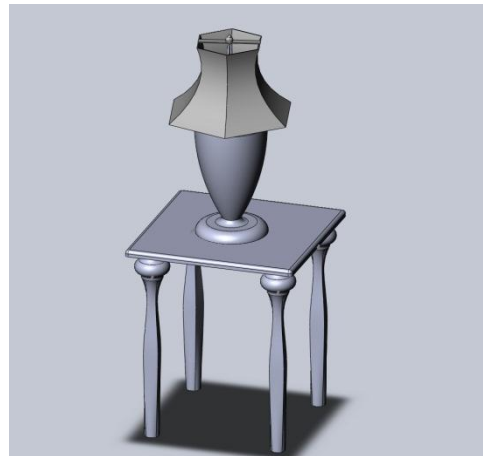
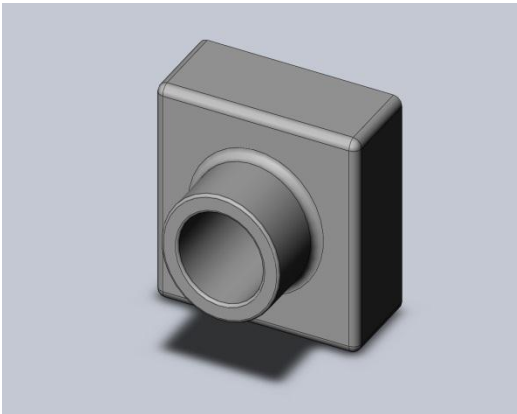
## Samantha Summers

Entering into my fall semester of EDSGN 100 was quite the learning experience for me. Previous to this introductory course, I never had a single class pertaining to engineering or any real applicable designing. The closest I got to graphic design was my junior year Architectural class. Some of the skills I developed in this class were:

- 1) Sufficient knowledge of PC use → I was raised using Mac computers, and I'd been able to avoid encountering programs with PCs until this course. As fundamental of a skill and as easy as it sounds, it was a very frustrating process learning the basic uses of the PC and its programs.
- 2) Knowledge and usage of Microsoft Web Expression → Before this course I had never created my own website, nor used Web Expression to design my own website. By making our own personal web-page and constantly updating it, I feel more confident in web-design layout.

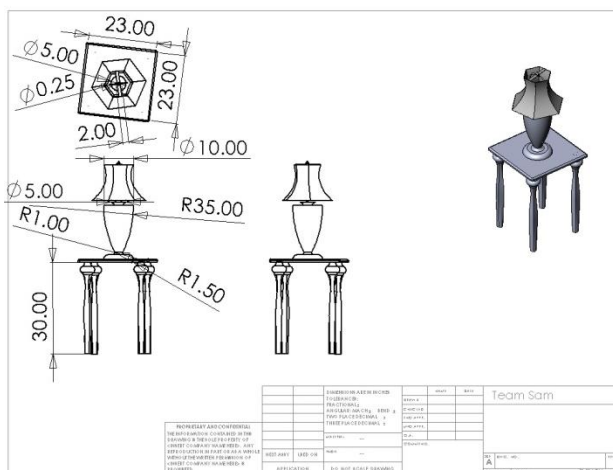


- 3) Knowledge and usage of Solidworks→ Another new program to me was Solidworks. I had never heard of this program, let alone used it until this course. The beginning was once again another frustrating process. The first Solidworks project I completed was a tutorial making a camera-like object. This project took me the full 115 minutes of class, for just a basic extrusion and some cuts. Each week we had either one or two new projects that introduced new features. The next step was creating an assembly of two or more parts we created. By this point, I was getting more comfortable with Solidworks, and could improvise on objects instead of reading a directions sheet.



Left to Right: My first Solidworks Tutorial completed, the outside shell of a camera; My second assembly completed, from lampshade, wire, table top, table legs, and lamp-base parts  
Bottom: My first Solidworks Drawing---displaying the lamp and table assembly

The next process I learned on Solidworks was how to make drawings. This was fairly simple and easy learning; the dimensions were probably the trickiest component.



Last, we were given the official Solidworks CAD project, which was to make an object of our choice. I chose a sailboat, which turned out to be more difficult than I expected. I used an image that I found online for a toy sailboat to obtain basic dimensions. This is where I really learned how to improvise with Solidworks and make complicated objects, since everything from the sail, to the ropes, to the hull is not straight-forward. In the end, I was satisfied with my project.



<http://www.floridaec12.com/about.html>

- 4) Group Project individual roles and making an idea a success→ In all of my other courses, grades and success in the course is based on individual knowledge and ability to apply it towards exams. This EDSGN 100 course was the first class I've had where success was based off of the ability of group members to teach each other and share ideas to make something that one could not have come up with individually. I was fortunate enough to have great groups for both of my projects, the Cardboard Furniture Project and the GE Telecom Base Project. Even though we split into individual tasks, we still referred to each other to get the job done and produce the best outcome. In both of these projects I chipped in on the costing job. I learned how to navigate the web better for cheaper off-the shelf products, and I also learned a little bit more about the unfortunate reality that finding these cheaper-off the shelf products will only cut ones cost so much. I learned about estimating factors such as labor, and costs that I wouldn't even have considered before such as estimating the surface area which we had to glue together to determine the amount of glue and cost per ounce we would need. I also learned

effective advertisement layouts when I created the brochure for the GE Product. Even though the tasks were split up, I would say I learned more than I would have had it been necessary I complete the whole project by myself because I explored each different realm of possibility and method of thinking for each individual group member, and the combined effort made our projects stronger in the end.



Far left: The brochure I made for our GE Project, which taught me effective advertising skills

Top Right: My team for the GE Project (Alex Smith, Asmaa Alhaddabi, myself, and Robert Hamill)

Bottom Right: My team for the Cardboard Furniture project (Charlie Garlisi, myself, and Melanie Frank---missing Zack Rutstein)