During the CAD section of this course, I gained a background of engineering graphics through the program SolidWorks. Through the program, I learned about basic design features such as:

- Extrude Base / Cut
- Revolve
- Sweep
- Fillet/Chamfer
- Loft
- Shell

I was also able to learn about the assembly process by creating numerous mates between parts. These mates could either be coincident, concentric, or tangent. The model that was created was able to be transferred onto a dimensioned drawing.

To the left is a SolidWorks model of the Pearl Tower in Shanghai. This was my individual Solid Works project inspired by my upcoming trip to China this summer. This most difficult part of this project was creating angled planes to accommodate the triangular detailing of the building. The model was created using various mates and the basic design features outlined above.

To the right is a table accompanied by a lamp that was made after a semester long investigation of the basic Design Features.

Below is a drawing of a mug that was modeled through SolidWorks.