For my personal CAD project, I decided to make a Hookah (Also known as Shisha) stand. With the program Solidworks, I created three parts: the base, the stem, and the top. Mainly, most of the project was done with the “loft” feature, since the stand has a cylindrical appearance.

Being my first time in college, I had opportunities to try many leisure activities of other people, and one thing I got to try was Hookah. A lot of my friends would smoke Hookah, while socializing, and they would often let me give some tries. This was one of the significant experiences I have had, and I decided to learn how it works and actually make a model out of the Hookah stand when this project was assigned. When I go downtown, I often see shops selling hookah stands size varying from a typical water bottle up to the size of a toddler. They all have unique features, and I thought it might be fun if I actually made my own design of a Hookah stand.
I searched through images in Google. I intended to make an original design, but still took some reference through this image.

(Reference:http://communicatingacrossboundariesblog.com/2011/06/09/hookah-hypocrisy/)

There were some difficult problems too. In terms of making the part that is attached to the stem was hard because the sides were tilted. Keeping in mind that the pipes had to have the right length and diameter made the project tedious. Otherwise, this would have made my project a lot easier. (Picture on the left.)

Like other CAD projects, this project felt similar; fun. It seems not long ago when I struggled to figure out what I have done wrong, or learning new features. I questioned the purpose of learning this, until I was able to able make almost everything that is relatively simple. It is always amazing how I start from lines and sides to make an object; something we would see in our daily lives. It would be so exciting to take another struggle to advance to the next level and make something more complex, like engines.