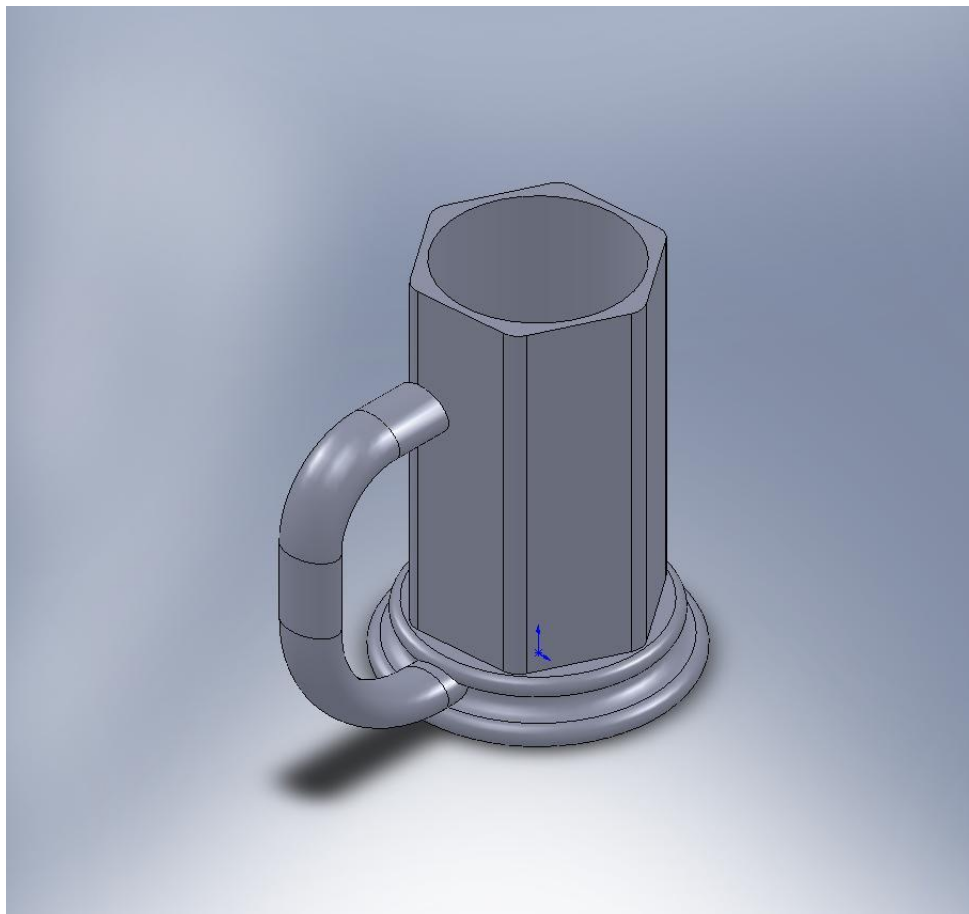


My Overall CAD Experience

Prior to entering this Engineering Design class, I had obtained some basic experience through a CAD class in high school. I knew the basic techniques of extrude, revolve, cut, shell, and fillet. I also knew how to create drawings and assemblies. However, I had never been introduced to loft and other techniques covered in this course. Therefore, this class not only renewed my memory, but proceeded in sharpening my CAD skills even more. Through several tutorials and a quiz, I generated several models through the use of Solidworks in this course. Finally, I constructed my own personal CAD project which can be seen on the Personal CAD Project link. Overall, I feel I gained even more knowledge and experience with the basics of Solidworks that could greatly aid me in the future.

Here are some pictures of what I did in the CAD section of Engineering Design:

For my CAD quiz, I designed a mug using lofts and revolves with a unique handle made from a sweep.



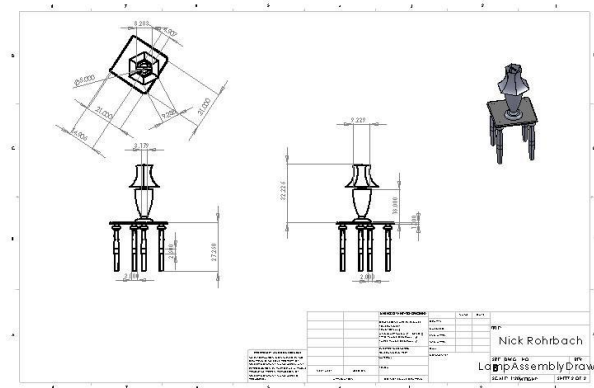
Using the loft technique as well as a bend, I created a hammer head.



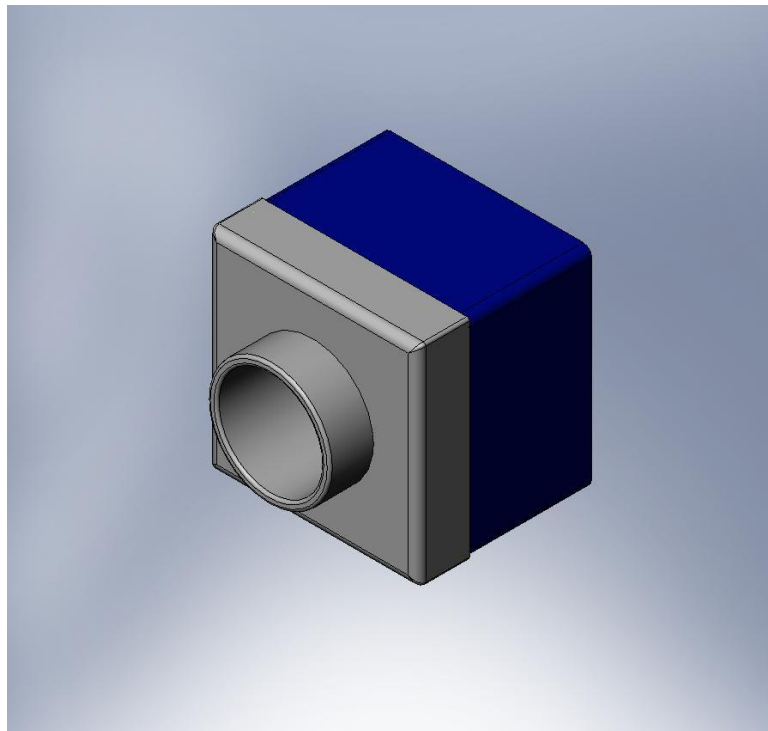
Utilizing almost all the techniques taught in this course (extrude, cut, fillet, revolve, sweep, etc) I created a lamp and a table. Then, I put them together as an assembly.



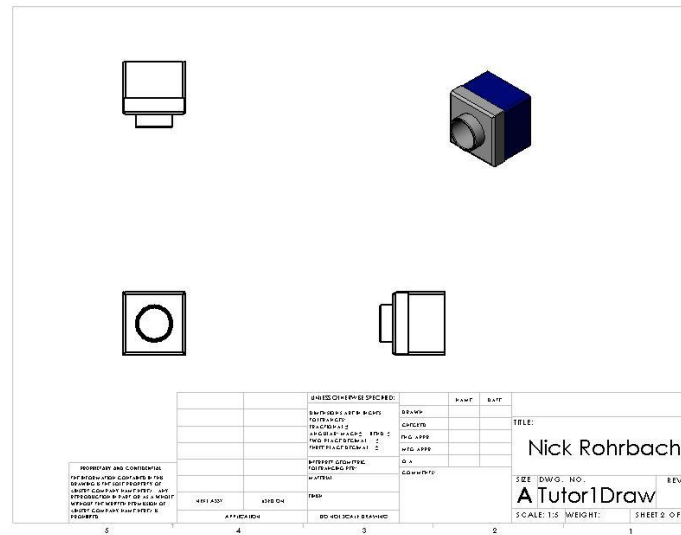
Here is the drawing of the lamp and table, including dimensions, standard front, top, and right views, and an isometric view.



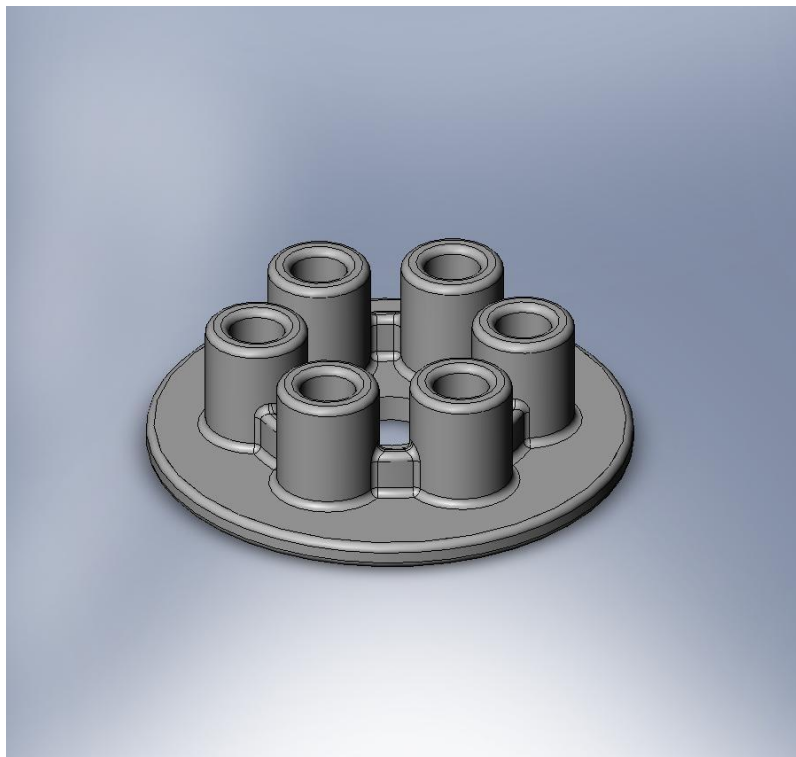
I also constructed a camera lens through the assembly of two parts created from extrudes and cuts.



Here is the drawing for the assembly above



Lastly, I utilized the pattern technique and previous skills to create a pressure plate



Here is the pressure plate drawing, including the dimensions and views as well as a cross section

