My Personal Solid works Project

I chose to make a to go coffee cup on Solid works because I use one almost every day and for my abilities with Solid works it seemed challenging enough for me. I get at least one cup of coffee every day because I never get enough sleep to stay awake during the day. When I looked at the cup the top of the cup looked the most challenging because there are many different bumps and indents. I have struggled a lot with Solid works over the semester so I thought this project would be good for me. The most difficult part for me was the lid and the sleeve. The sleeve was difficult because I had to find a tool to measure certain parts of the cup with smart dimension doesn’t do. I used to measure tool to find the exact dimensions of what I wanted for the sleeve. For the lid I used many different features. I used revolve/boss base to make the lid toppers. I also used cut extrude to cut the slanted part of the lid and I found that this tool had a way to make the extrude at an angle so that I could make the cup look more like a coffee cup. Then I cut holes to put the coffee lid toppers in and mated them together. To make the base of the lid I used the revolve and fillet tool to make one of the sections and then the shell tool. The other section I used a loft and an extruded cut to make it. This relates to my interests because I love to drink coffee I drink it every day so I thought that it was very relevant to my life. My understanding of Solid works was expanded through this project. I was able to get more comfortable with tools we already learned. I used to be very unsure of how to do basic things on Solid works and I was able to get much more comfortable with making different planes and making my own objects with their own dimensions and being able to mate them together. I am glad I was able to learn how to use Solid works to some extent. The coffee cup I made is a commercially available product that is used by almost every one for hot beverages every day.