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EDSGN 100 Personal CAD Project
Section 12

For my final personal CAD project I have decide to build a model of a Boeing-747 jet (Figure 4). I chose the Boeing-747 because I believe it is one of the best airplanes ever invented. As a mechanical engineering major my dream is to be able to work for a company that builds airplanes and maybe even one day a space ship. So what better place to start then designing a model in my freshman year engineering design class.

Designing the model Boeing-747 was a very difficult task. The toughest part of the design was the front of the plane. The way the Boeing-747's front is designed is it starts off high up takes a steep curved slope, down into a less curved slope, and finishes off with a rounded front. I tried to create this through a series of lofts to get the correct shape (Figure 3). This was the correct method to use however it did come out slightly awkward looking. This was due to the short time period I had to work on the problem. To do this process correctly I would have to put many very small lofts in to get the correct shape. However, I only had time for a few larger sized lofts. I believe given more time to work on this project I would be able to put in the correct amount of lofts to get the correct shape.

Along with designing the airplane I added to pictures with some visual effects from the CAD program Solid Works. This first effect was I gave the model a color of polished aluminum (Figure 1). I thought this color to be more aesthetically pleasing than the standard Solid Works color. Secondly I created one picture that makes it look like my airplane is flying high above a courtyard (Figure 2). I added this picture because it was a cool effect Solid Works allowed me to do.

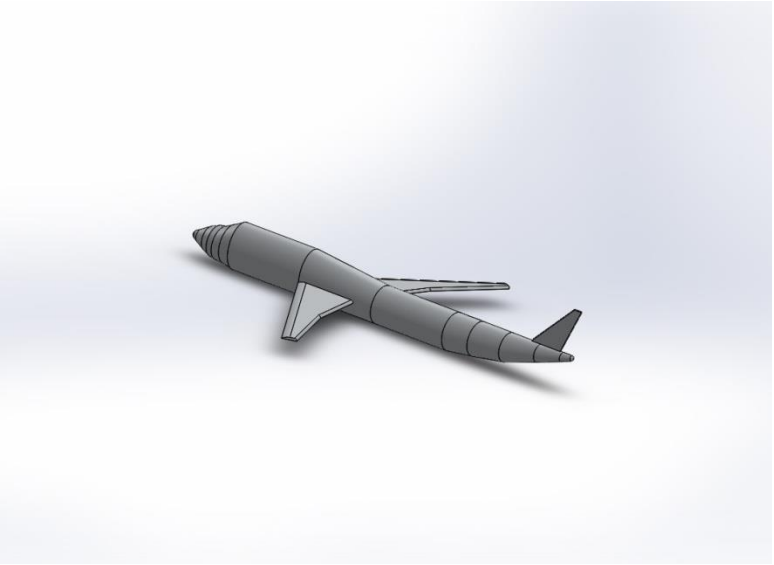


Figure 1

Figure 2

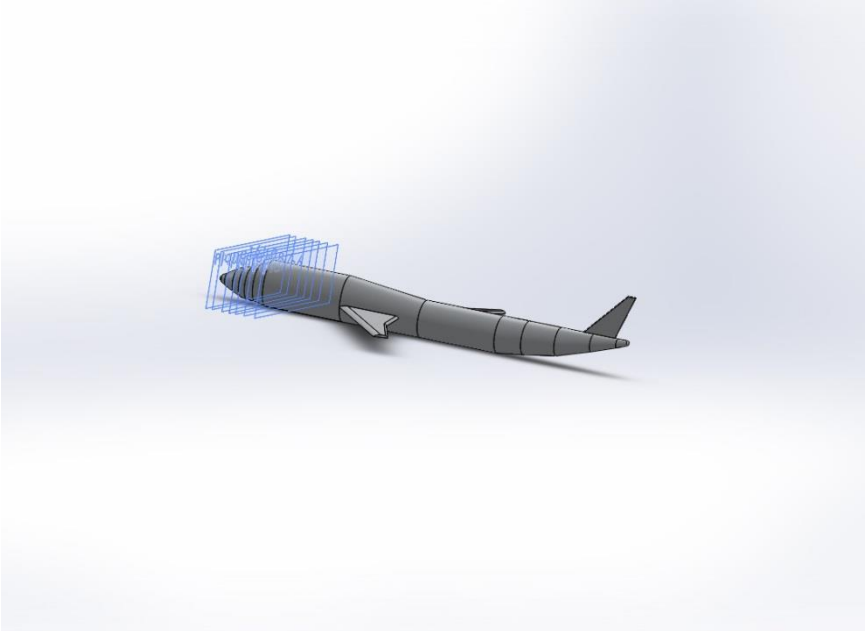
Figure 3 

Figure 4

**The multi-view and isometric drawings with dimensions are saved as a separate link on my webpage because on the word document it was tough to read dimensions and see the picture.