Personal Solid Works Project.

THE RMS TITANIC

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I decided to choose The Titanic as my personal Solid Works Project because since I was a kid I’ve always been attracted to the ship’s history. Its hard to believe how such a massive boat sank during its maiden voyage after being called by its architect, Thomas Andrew, “the unsinkable ship”. The fact that over 1,500 people died in the accident because they lacked life boats, was something that really surprised me and made me realize that the human kind can never be above nature. I used to sail when I was in high school, so I believe that’s why this tragedy is so interesting to me.

When designing the boat on Solid Works the most challenging part was the hull. To make it I decided to use the Loft feature. I created a new plane and sketched the top part of the hull while on the bottom plane I sketched a thin rectangle. The back of the boat had several curvatures and shapes hard to replicate. However, I was able to do it by using the Extrude Cut feature on different new planes and also the Fillet feature.

The windows on the hull were made using a tool a haven’t learned before, linear patter. This tool simplified my work and also made it faster. The ship deck was made imitating the original shape on a sketch, I used the Extrude Cut feature and after the Shell feature to make it hollow. I separated the chimneys in two parts so they could have different colors. I made them using two different planes and Lofting the sketches. I also used another new feature, Scale. It was used to change the size and width of the hull because at first it didn’t have the correct proportions. After all the parts were completed, I created an assembly to mate them together. The following are pictures of the final assembly and dimensions:
Figure 1. Front view

Figure 2. Side view
Figure 3. Isometric view

Figure 4. Drawing with overall dimensions
The following are the reference pictures used to recreate The Titanic:

Figure 5. Side view of The Titanic.

http://static1.squarespace.com/static/53083205e4b0a1bd57ab9c3d/t/5328a3f9e4b091b8426ad3f3/1395172349057/

Figure 6. The Titanic.

http://cdn.history.com/sites/2/2015/05/hith-titanic-tombstone-E.jpeg

I didn’t have any experience with Solid Works before. Even though, I now feel capacitated to start a new design and be able to complete it; the class thought me all I know about it. I look forward to keep using this program in my future classes