

# THE WATER FOUNTAIN

A Personal CAD Project by Aleksandra Jurgowska

EDSGNI00.012

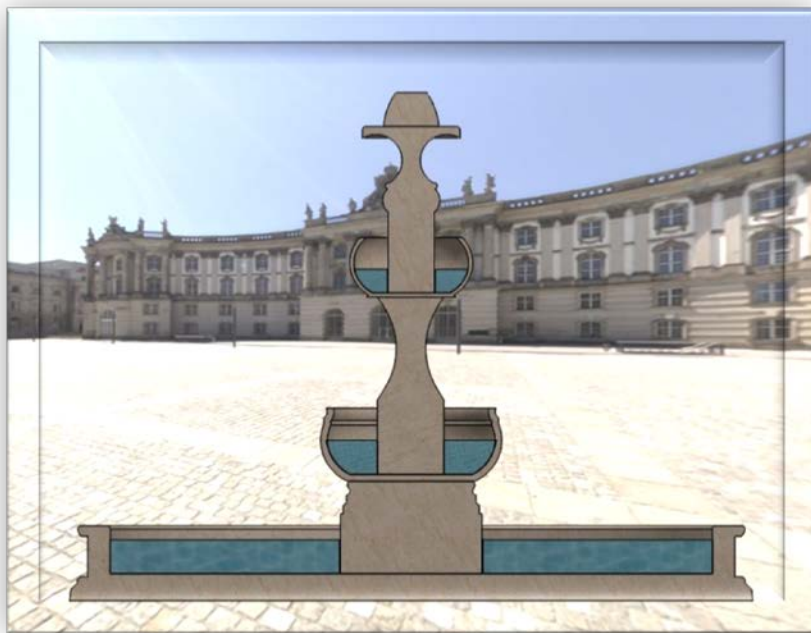


Figure 1: The completed personal CAD project.

Perhaps the most thought-provoking part of this project was choosing the object to create in Solidworks. Because this is a personal project, I wanted the object to represent something about my hobbies or experiences. As I was staring at a blank screen for half of the class time, I started to daydream. I was imagining taking a short break from all my schoolwork at a beach resort. As I was thinking about how great it would be to get away, I imagined the resort and saw a classic marble water fountain in the front. Being so immersed in my daydream, I did not want to wake up, however, I had just figured out what to

recreate: the beautiful water fountain! It relates to me not only because I daydreamed about it, but also because as just a little girl, I always thought I would become an architect. I would spend lots of my free time drawing and create various buildings, features and architectural objects such as fountains.

The overall process of creating the fountain was not as easy as I imagined. Because the object has many details and irregular shapes, it became a long process. Perhaps the most challenging part of the process was creating the water parts because I left it until the very last minute. To do so, I had to create parts that would fit perfectly into the water bowls. This took lots of patience and time, since the bowls were not just straight lines: I had to use exact dimensions. I have spent lots of class time and also my own free time to make sure that every piece fit exactly like it was supposed to and that the fountain came out just as I have daydreamed. However, I enjoyed this project very much because it challenged me to learn more features of the Solidworks program and to be more patient. I am sure I will use Solidworks in the future and this project just helped me become more familiar and skilled for any projects yet to come, whether at PSU or later in life.



On the left is the section view of the fountain (Figure 2). As one can see, the fountain is made entirely of white dull marble. The blue parts of the object show the flowing water. This is not a functioning fountain; however it gives the effect of it, looking elegant and luxurious.

Figure 2: The section view of the object.

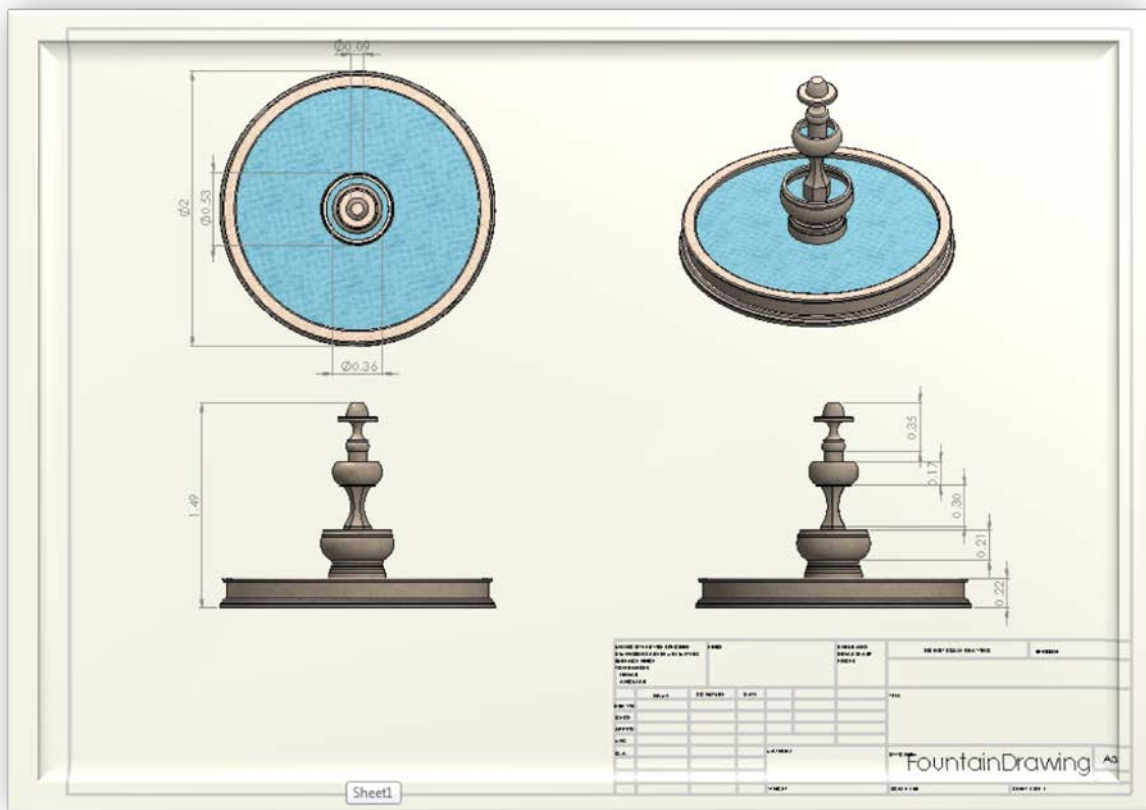


Figure 3: The Fountain Drawing, showing the top, front and right views, as well as the isometric view.