Solidworks Personal Project

Pioneer CDJ and Mixer

EDSGN-100

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Due: 5/5/15
Solidworks Screenshots

Top View
Back View
Pioneer CDJ and Mixer

I chose to make a 3D model of the Pioneer CDJ and Mixer because Electronic Music is my passion. It is mostly the only genre of music I listen to, and it motivated me to learn Djing. I actually taught myself the basics of Djing, and I am very much interested in learning more about the equipment. Thus I felt that it would be perfect to 3D model the equipment and learn more about it.

I chose to prepare the model using as minimum parts as I could. I could have chosen to make several parts, which consists of several different buttons, knobs, and pads, however, the assembly and mating would have been very tedious and time consuming. On the other hand, making many parts would have allowed for more editing freedom and modifications. In the end, I decided to make it all as one part, as time was a constraint. This did not give me much editing freedom, and I had to make use of accurate dimensioning and geometry to ensure that everything was accurate in the first attempt as re-editing it would have had severe consequences on the project.

A new feature that I learnt was using Decals. I learnt about this feature via YouTube, as I wanted to ensure that I learn it properly since it was a major component in my project. I used different types of decals, such as direct decals, which fitted a flat 2d surface, and a projection decal, which covered the entire 3d surface. In some cases, I prepared the decals by obtaining it from image files on the Internet, however in most cases, I created my own decals using paint. The decals I made myself turned out to be of a better resolution, thus I preferred making my own decals wherever it was easy to reproduce those.
Initially, I was really struggling with Solidworks. I did not understand the different features and I was very confused. However, completing different tutorials really helped me improve my grasp on this software. I enjoyed working on it, and that is why I took up such a challenging project. Solidworks has really helped me understand the complexities of 3D modeling, and how difficult and intricate it is to design the simplest of the products.

The following images were used to prepare the 3D model:

CDJ
Mixer

Bibliography:
