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EDSGN 100

Customized Guitar

I modeled my personal CAD project off the new model of a Gibson Les Paul Custom guitar. I did take some liberties in the materials used in terms of the metal hardware on the



guitar as opposed to the picture of the object, merely because of personal preference. A picture of the guitar is provided. The picture quality that I worked from was much better as

the website¹ had an application viewer to see the pictures at a bigger size and image quality.

Also provided is an isometric of the CAD rendering with a few details:



Figure 1: Full Guitar Isometric View

¹ <http://www.themusiczoo.com/product/10798/Gibson-Custom-Shop-One-Off-Les-Paul-Custom-Figured-Transparent-Blue/>



Figure 2: Hardware Detail



Figure 3: Fret and Switch Detail

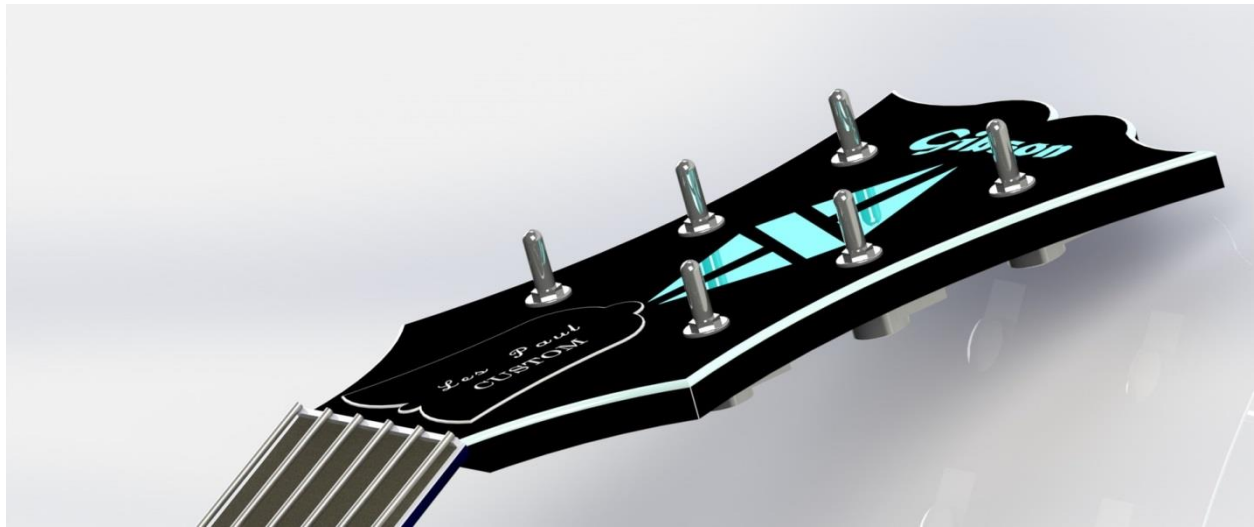


Figure 4: Neck Detail

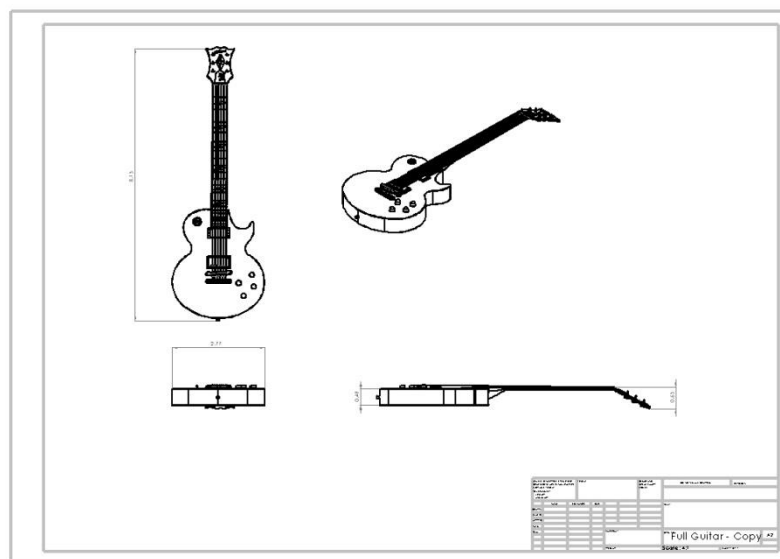


Figure 5: Drawing

The reason that I chose to make a guitar in SolidWorks was that I really like guitars, both the music part and just the design value of them. It also seemed to have a fairly reasonable intermediate difficulty level. The most difficult part of the project was just the amount of detail that had to be taken into account and the planning out of the tools and applications that I was going to use to accomplish everything that I wanted to. Even after all the planning and detailing I wasn't able to include the spirals around the tuning pegs at the top of the neck. I was able to figure out how to use the actual tool on SolidWorks but made the decision that it was probably not the most important thing to do. So prioritizing and planning were two very difficult things to

figure out when doing this project. I picked to design a guitar for my personal CAD project because I have always been a huge fan of music and have taught myself to play a little guitar myself. This particular model is the exact one that I have just a little newer. The basic difference between the two is a little bit of styling attributes. Basically I just learned just how many things SolidWorks can be used for, and I am dead sure that there are many, many more but I am definitely going to take the time to learn all that I can.