

Maple Top Guitar

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Figure 1: Isometric view of guitar

For my Personal CAD Project I chose to design a guitar. This guitar has a lot of different influences in it. I pulled from numerous sources to create it, such as online designs, and my own guitar. The guitar has a solid maple top with teak sides. The dimensions are bases off of a Gibson L guitar. Images of these guitars can be found below. The part I most struggled with in this project was the guitar strings, and thus I chose to leave them out. I could never actually get all six strings to be located in the correct place. The most challenging item in the drawing, however is the tuning pegs and assembly. This object relates to mechanical engineering through the moving parts of the tuning mechanisms. Playing guitar has become a hobby of mine just over two years ago. Ever since I picked it up, it took over my life, in a good way. I had lots of fun with this project, and learned many new tools and features in the SolidWorks program. I also like the fact of working alone rather than the tutorials in class, because for me that's how I learn best. That is even how I learned to play guitar, by myself.

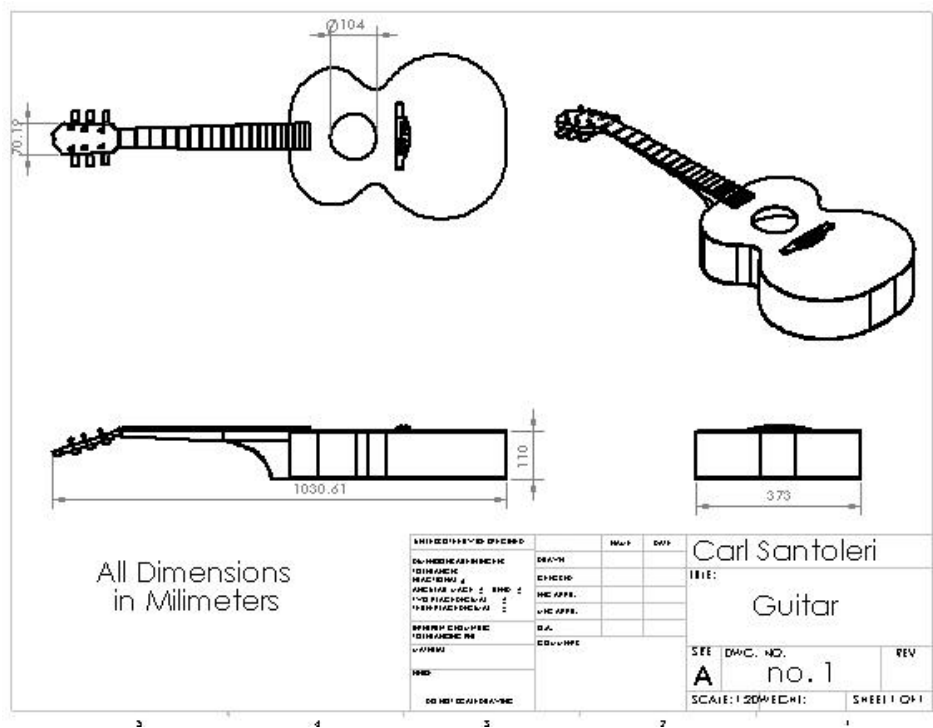


Figure 2: Guitar multiview

Design Inspiration Images



Figure 3: Fender T-Bucket CE 400
(My Guitar)



Figure 4: Gibson L-00

References

Fender guitar: <http://www.themusiccenter.net/images/products/large/096-8055-021.jpg>

Gibson Guitar:

http://static.musiciansfriend.com/derivates/18/001/627/373/DV016_Jpg_Large_H75445.001_natural.jpg