

## Personal CAD Project

I do not play any musical instrument however I have always been fascinated by music. I always thought that if I were to be a musician, I would play the guitar. The guitar is such a magnificent instrument. It allows the user to create unimaginable art and it is art in itself. I chose the **BC Rich Platinum Beast Bass** because it stands out even among the most beautiful guitars. It is truly a masterpiece and it was only fitting for me to try and recreate something I considered so incredible.

Designing the guitar was a pretty challenging task, each part had to be measured out separately then scaled to a normal guitar size. After playing around with the different tools SolidWorks provides, I learned how to make almost any shape I want and I was to successfully recreate the guitar. A lot of parts had to be made separately and then assembled to make the complete guitar. It was quite time consuming but I enjoyed the entire process. In the end, I was proud and happy with the results I obtained.

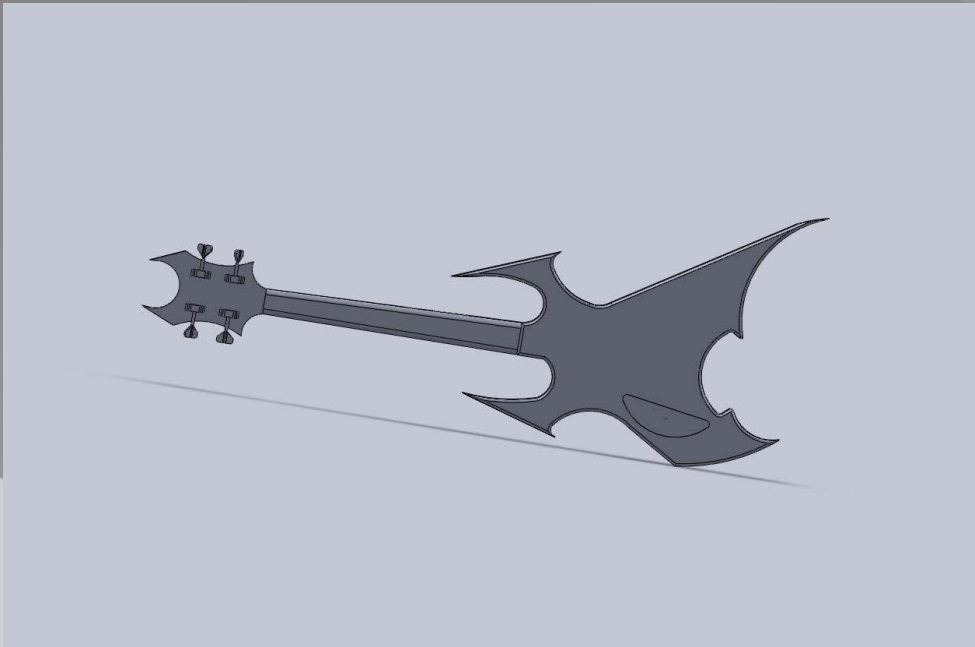
## Lessons Learned

SolidWorks taught me how to make models of products or prototype on a computer which is a valuable asset for an engineer trying to enter the professional field. Almost any shape is possible through SolidWorks as long as the dimensions are known. This allows any user to create any complex or simple design without having to be an expert in art. SolidWorks is also very flexible, allowing trial and error, and it also provides great help when errors occur with dimensions or within a sketch. The assembly feature is quite neat allowing the user to create multiple parts and then joining them together to make a complete object. SolidWorks is a very valuable tool for any engineer.

## Guitar



Front View of the guitar.

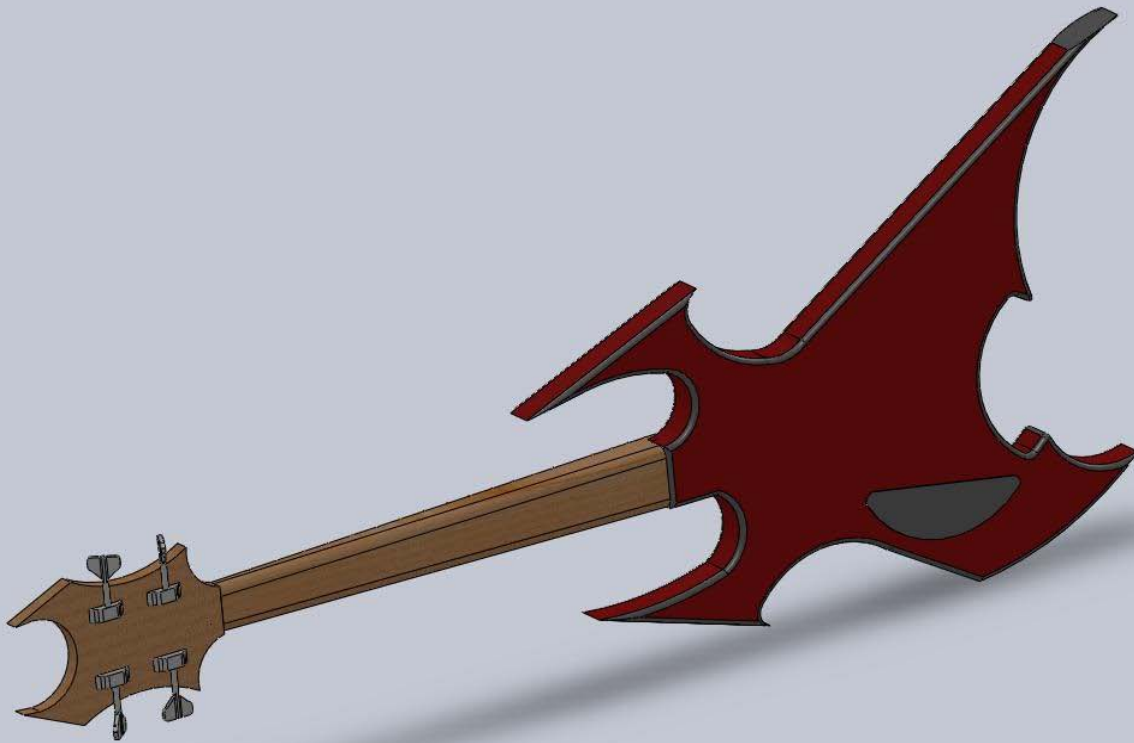


Back view of the guitar

Painted Guitar



Painted front view of the guitar.



Painted back view of the guitar. All colors are original.

#### Note

The guitar does not have any strings because SolidWorks does not allow to make the strings the way they should be. the strings bend at multiple points along the guitar and even though SolidWorks allows objects to be bent, the dimensions for the angles where the strings bend were not present.

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