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Personal CAD project - Golf Putter



Figure 1: Odyssey's Sabertooth golf putter. This is one of their "mallet" putters, and the unique design helps to designate the weight to the perimeter and behind the face, making it strike smoothly like a pendulum.

I have been obsessed with the game of golf since the moment I picked up a club in the 8th grade. I may have started playing later than most other young competitors, but my passion drove me to play every day and excel at this sport that means so much to me. The part of the game that most interests me is putting, which is why I chose to construct a putter for my personal CAD project. I based my model off of Odyssey's Sabertooth putter (Figure 1), which happens to be the same one that I own.

I created the putter as an assembly made up of three parts: the grip, shaft, and the head. The most difficult part of the project was making sure that head looked sleek and was correctly dimensioned. I did not want to exactly replicate the Odyssey Sabertooth putter, so I based my measurements from their standard 32" shaft putters, but changed the appearance of the head. I extended the fangs on either side and made it slightly less round to give it a stylish look.



Figure 2: A close up of the putter head as a part. I mated the putter shaft to the hole in the bottom left corner. The two small holes mark the center of the face.

This design is also different from the standard odyssey sabertooth because I curved the putter shaft at the bottom. This is common in many other putters and it seemed like the look would go well with the putter head I had created. Additionally, I

made the grip thicker than a standard grip for a more steady control over the club. It is outlined in blue to match with the head.



Figure 3: An isometric view of the final product of the putter. I added a little Penn State spirit to it with the blue and white colors.

This project greatly improved my CAD skills and allowed me to add in my own creative ideas to the design. It was amazing to successfully make this club because at the beginning of the course I was not able to even create a circle using solidworks. I have come a long way with my CAD and sketching abilities and it means a lot to me that I can replicate something that has true meaning in my life.

REFERENCES

Figure 1:

Kelley, Brent. "Odyssey White Ice Putters." *About Sports*. Web. 15 Dec. 2014.
<http://golf.about.com/od/equipmentreviews/ss/golfequip112009a_5.ht>