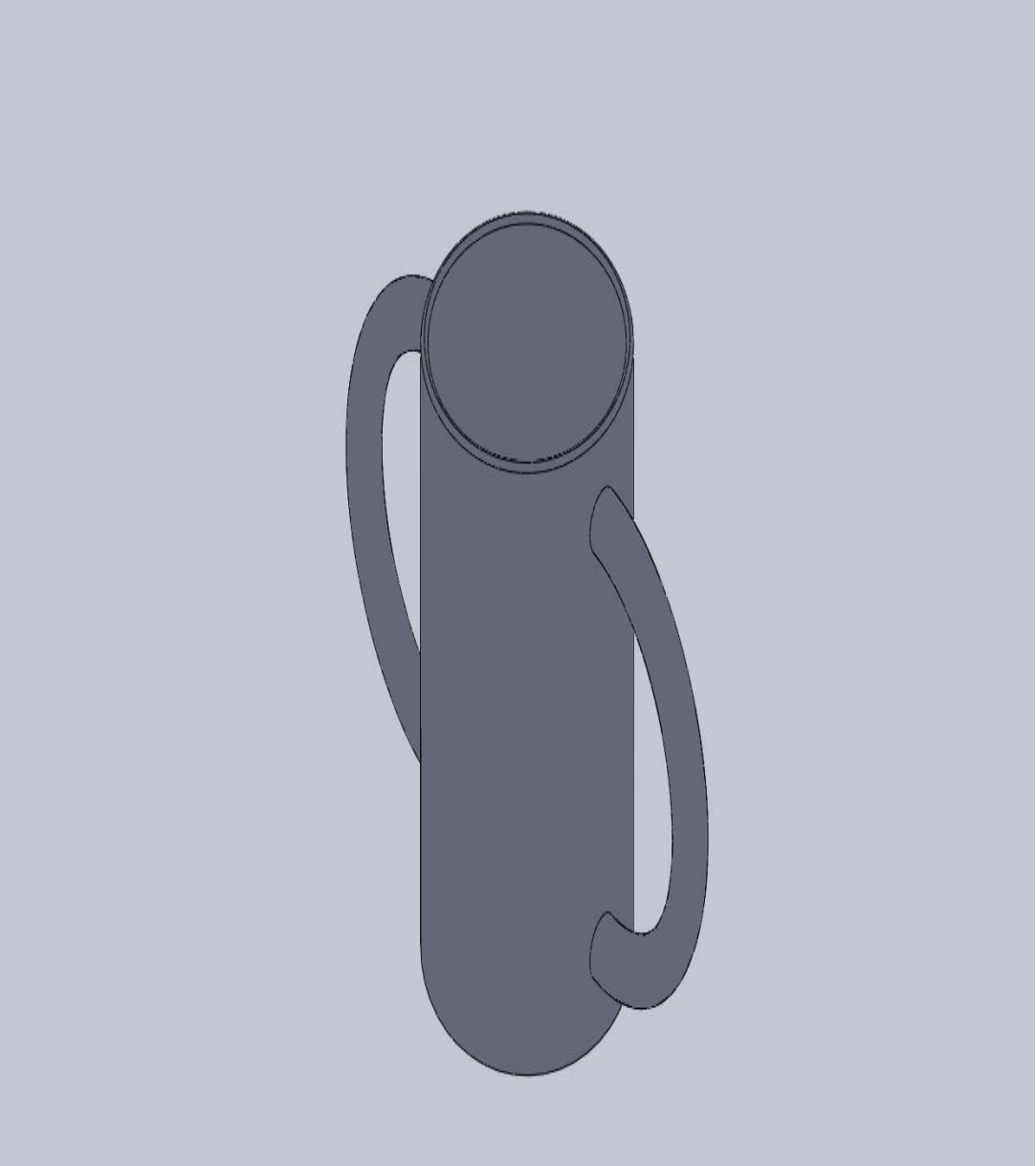

For our first project, we had to create a mug that someone with only one finger could use. Here is an image of the mug we created. This mug took a lot of effort to create because we had to use the analytical hierarchy process to create the perfect mug. The AHP essentially is a method of comparing attributes of the mug and ranking them based on importance. After doing this for several different features this was the final product. This mug could work with anyone even if they had only palms. It is lightweight and sturdy in case someone dropped it.

For the second project, we had to create the best method of getting a locomotive from Philadelphia to Pittsburgh for GE. This was a big challenge and had a lot of significant parts to it. We had to create 4 different factors that played the biggest role in the train design that we went with. These were cost, on time delivery, capacity and emissions. Using these factors we used the analytical hierarchy process to pic one of our 4 designs that would work the best for GE. We ended up choosing to completely buy new tier 4 trains