

## Engineering Design Project 1

In this project design, we investigated that people with disabilities such as one finger, are having a very hard time to hold up a coffee, conveniently and comfortably drinking it. For this project we designed a coffee mug that is able to help people with various disabilities. The problem at hand seems simple at first; Design a coffee mug. But adding the one simple constraint of creating the mug for someone with only one finger is an abstract task to say the least. Another issue all together was the fact that there has been little done to address this issue previously so the design had to be either completely original or a compilation of tons of other ideas. When it came to designing this mug we knew that we needed something that could be used with ease, something that was lightweight yet spill proof in order to adhere to the inconvenience of only having one finger to provide support to the mug itself. Viewing several different easy to use designs such as the patent that will be explained later, we were able to come up with several different possibilities which were then narrowed down during the Engineering Design Process and its corresponding AHP ranking system.

Diagram:

