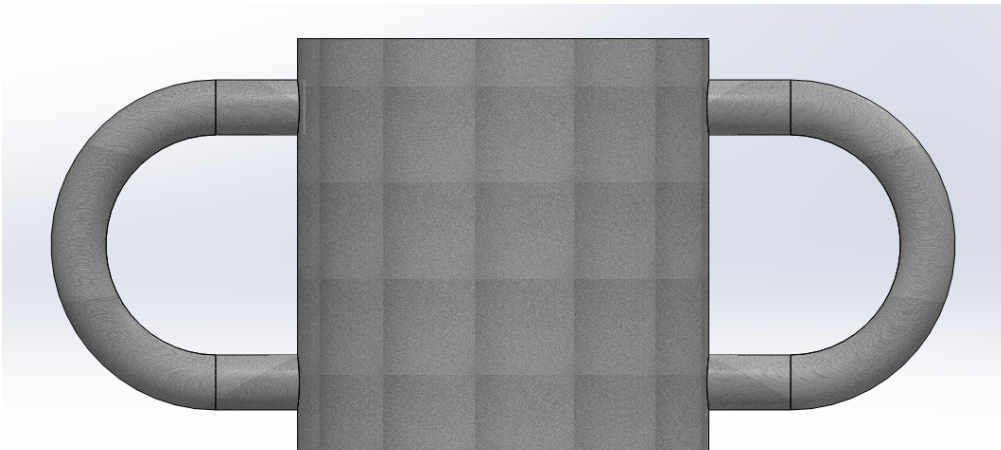


Design Project One's objective was to analyze the current offerings in the market and design a coffee cup that an individual with hand disabilities, specifically people that only have one finger, can use with ease. With the use of the design process, including an AHP chart, my group and I were able to create an efficient coffee mug for usage. The AHP chart helped to rank the most important aspects of the design that should be emphasized in the process. For example, the mug being mobile, and durable just in case the user dropped the mug.

	Portable	User Friendly	Durable	Flexible	Total (Ri)	Weighting (wi)	
Portable	1	1/5 = 0.2	1/3 = 0.33	1/3 = 0.33	1.86	0.083	1.86/22.38
User Friendly	5	1	1/6 = 1.66	1/6 = 1.66	9.32	0.416	9.32/22.38
Durable	3	0.6	1	1	5.6	0.25	5.6 /22.38
Flexible	3	0.6	1	1	5.6	0.25	5.6 /22.38
Total					22.38		

Example of the AHP process



Solidworks design of the final coffee mug design