



EMS's Product Design is "Flawless"...

EMS is always helping customers bring their ideas to life. Often we get requests from customers on exploring their ideas and this is usually at the beginning stages. We always do our due diligence to make sure that we can accurately assist on the project and also make sure our customers' ideas are protected.

When Angelia Hall came to us, we knew instantly that her idea needed to be created and available for the large amount of individuals who could benefit from this product. We took her concept drawings from paper and created both a 3D CAD model as well as a rapid prototype for her.

The Problem

As a professional dental hygienist, Angelia quickly realized the neglect and issues that her orthodontic patients had when it came to flossing while having braces. In all fairness to her patients, there was nothing on the market that could address the time and difficulty they had when it came to that daily task.

After spending months dreaming up a concept that could assist to handle the daunting task of flossing, it came to her one morning. She quickly started to design her product on a sheet of paper and even came up with the dimensions that would work with this specific class of customers. She thoroughly developed her idea and target market, but now needed assistance in getting her napkin sketch to reality. Angelia met with EMS's industrial designers and handed over her sketch along with the budget she had to work with.

The Solution

EMS took her information and quickly created a 3D CAD model from scratch using SolidWorks CAD software. Throughout the design phase, EMS's industrial design team discussed and worked with Angelia to make sure that they met her expectations. After a few iterations, Angelia signed off on the completed 3D CAD model and then EMS built a functional rapid prototype to test her concept.

Conclusion

EMS was able to work with a customer's napkin sketch to design and build a fully functional prototyping on time and on budget. When finished Angela stated *"I just want you to know that they are perfect, they work in every single way and I am so excited. And I just wanted to thank you guys so much for being so patient with my limitations and working with me. And I hope you guys have a Merry Christmas and you have made my entire year. Thank you"*.

Angelia Hall has since marketed her product and shown her prototypes to some large dental product companies and is expecting to hear back from them soon, we'll keep you posted on her success!

For more information visit www.ems-usa.com



Original concept design that was delivered to EMS.



3D CAD Model that EMS designed for Customer



Rapid Prototype of Customers final product which is Functional & Usable