

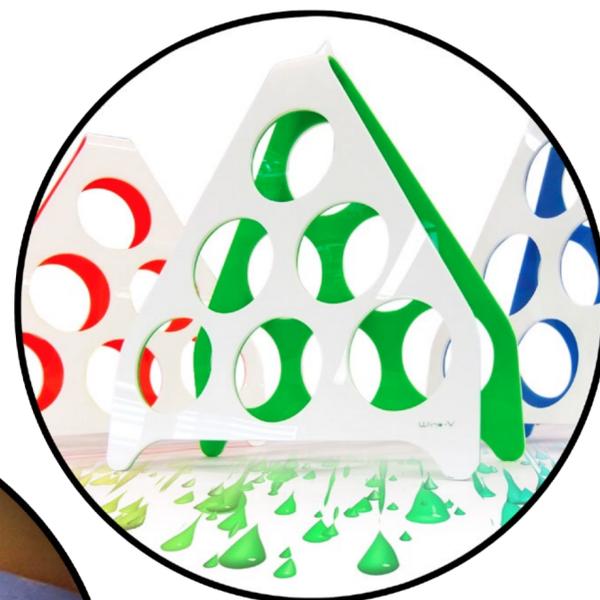
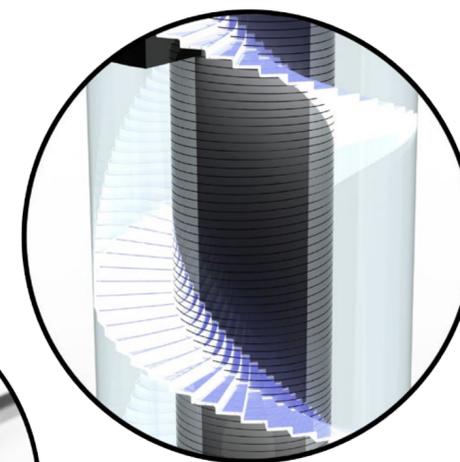


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I have been drawing and coming up with new ideas and objects since I was a child. I would look at things and think, 'that's good, but it would be better if . . .'





Bridging the gap between the mental benefits of aesthetics and the physical benefits of functionality on rehabilitation.

Over 1000 people a year under thirty suffer a stroke in the UK alone. Though orthotics have developed greatly over the last seventy years to aid users physically, very little has been done to combat the emotional and social impacts of stroke.

'People will continually look for cosmetic solutions that are easy and safe to apply,' and more over, 'we health professionals could learn a lot from designers.'
Senior orthotist at the RNOH, Royal National Orthotics Hospital

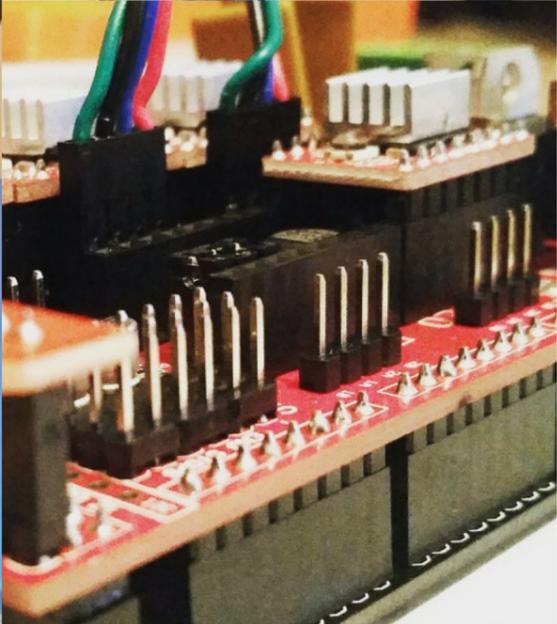


Lite Orthotics is a new level of individual focused prefabrications. Providing a range of varying sized modular products allows the user to be fitted with an orthotic that can be adjusted more accurately to their needs. This along with the option to customize the aesthetic encourages them to continue their lives as uninterrupted as possible. Using new materials makes the Lite Orthotics range 20% lighter, stronger and cheaper than current NHS orthotics.

Modular System

Lighter and stronger
 Simple and easy

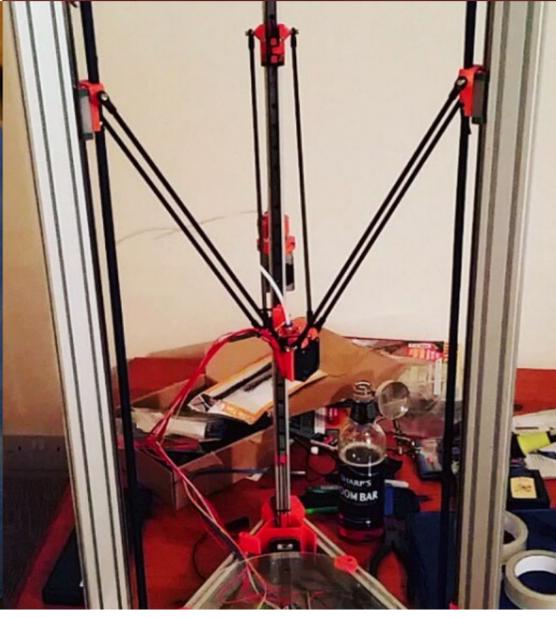
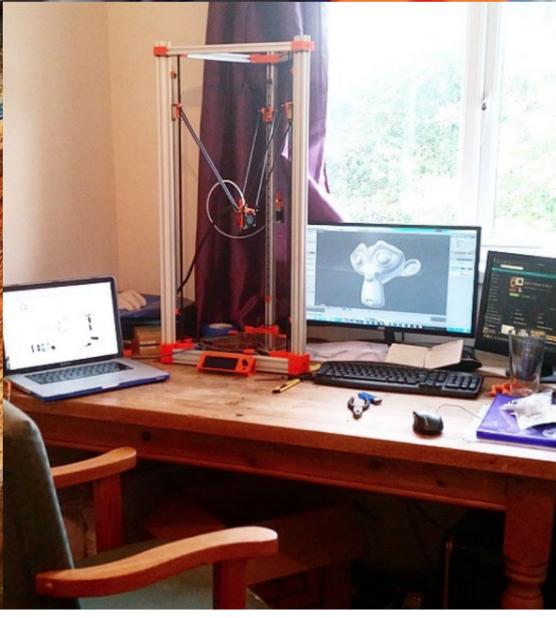
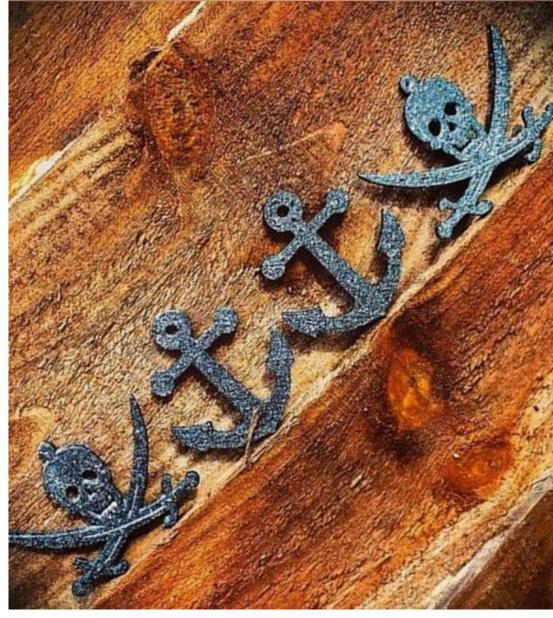




Being able to hold and look at an object from all angles makes a big difference in getting its form and function spot on. With this in mind, I began looking for a 3D Printer.

Building this printer was a very rewarding and relaxing process. For me, part of a journey of building something is to enjoy the learning experience, the times you cant get it to work and when it works but you don't know why.

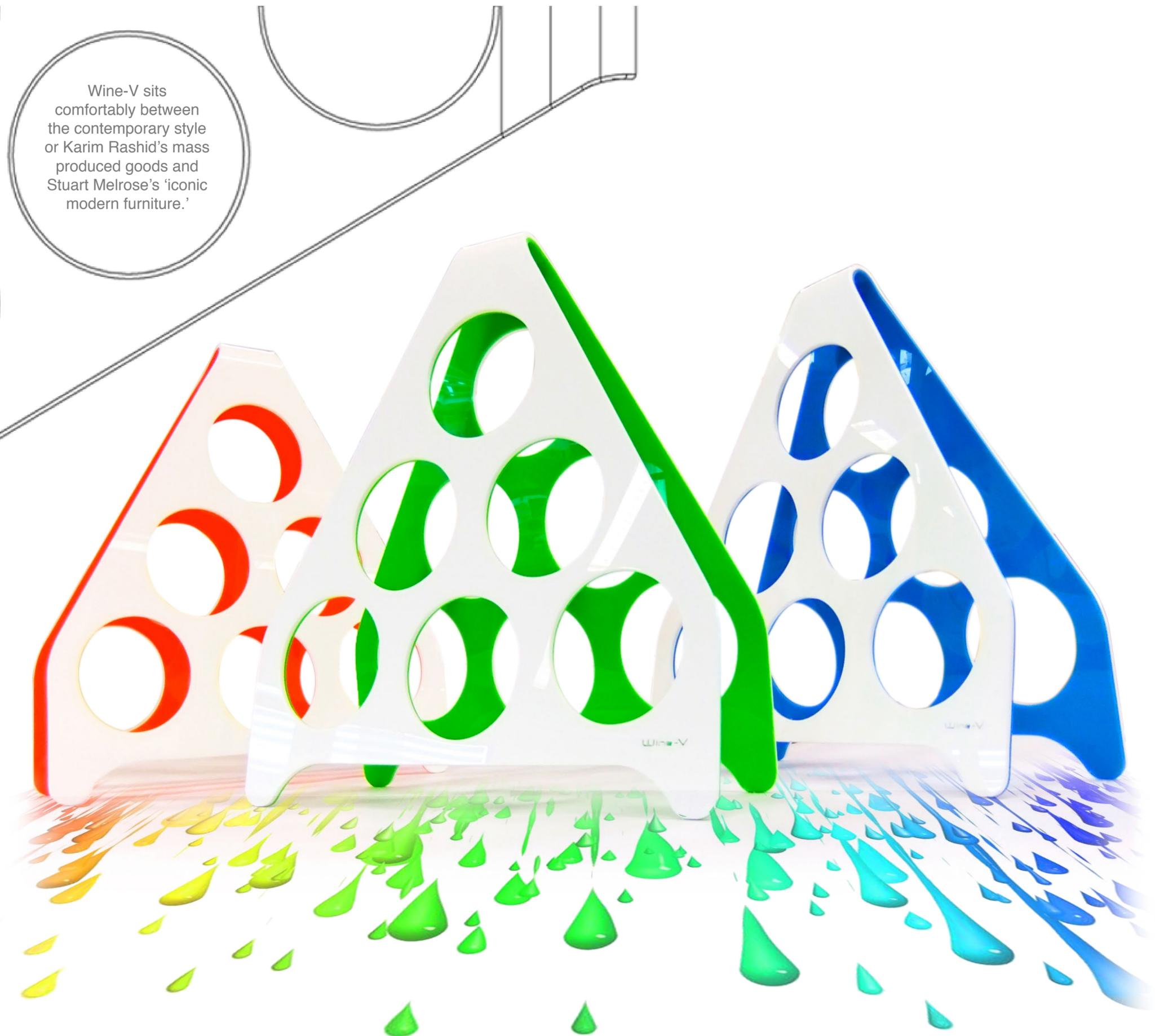
I have been printing all sorts of things and tweaking the printer settings over the last few months. Slowly but surely I am getting better and better prints whilst expanding on the printer itself.



Display wines from memorable occasions in your modern kitchen diner.

Wine-V sits comfortably between the contemporary style or Karim Rashid's mass produced goods and Stuart Melrose's 'iconic modern furniture.'

The Wine-V was subsequently on sale in Seale Hayne gallery in Newton Abbot, through private sales, and on display in Bistro One, Plymouth's 'Best Restaurant Of The Year' in 2011/20012.





John Makepeace OBE- Designer & Furniture Maker

Founder of the Parnham Trust and the School for Craftsmen in Wood Britain's, later becoming Parnham College.



I have been working as a design assistant for John Makepeace for the last three years on a wide variety of his projects. John Makepeace specializes in unique distinctive furniture for private homes, companies and public collections and has consistently pushed my CAD capabilities and fabrication knowledge within the furnishing field, whilst kindling my enthusiasm for contemporary design. John has benefited from my computer-aided design ability as a tool to visualize and detail his designs sooner, my work with him has allowed for earlier product development, visuals for clients and fabrication drawings.



Pieces of John Makepeace's work that I have been involved with.

Share your voice with us and we will share our menu with you

A sense of ownership and community can increase happiness and wellbeing, and can be directly related to productivity.

Focusing on food and social networking sites as an incentive and catalyst for nurturing a more positive state of mental health within the work place. With its core values of sharing, encouraging social interaction and promoting a healthy diet, Likebar provides a healthy food outlet service for people on the move through its simple order and rating system.

Likebar offers the opportunity for consumers to suggest meals as a replacement to the lowest rated meal on the menu every month. This ensures that Likebar develops along with changes in demand over the year as well as generating cumulative data on seasonal preferences.



Order

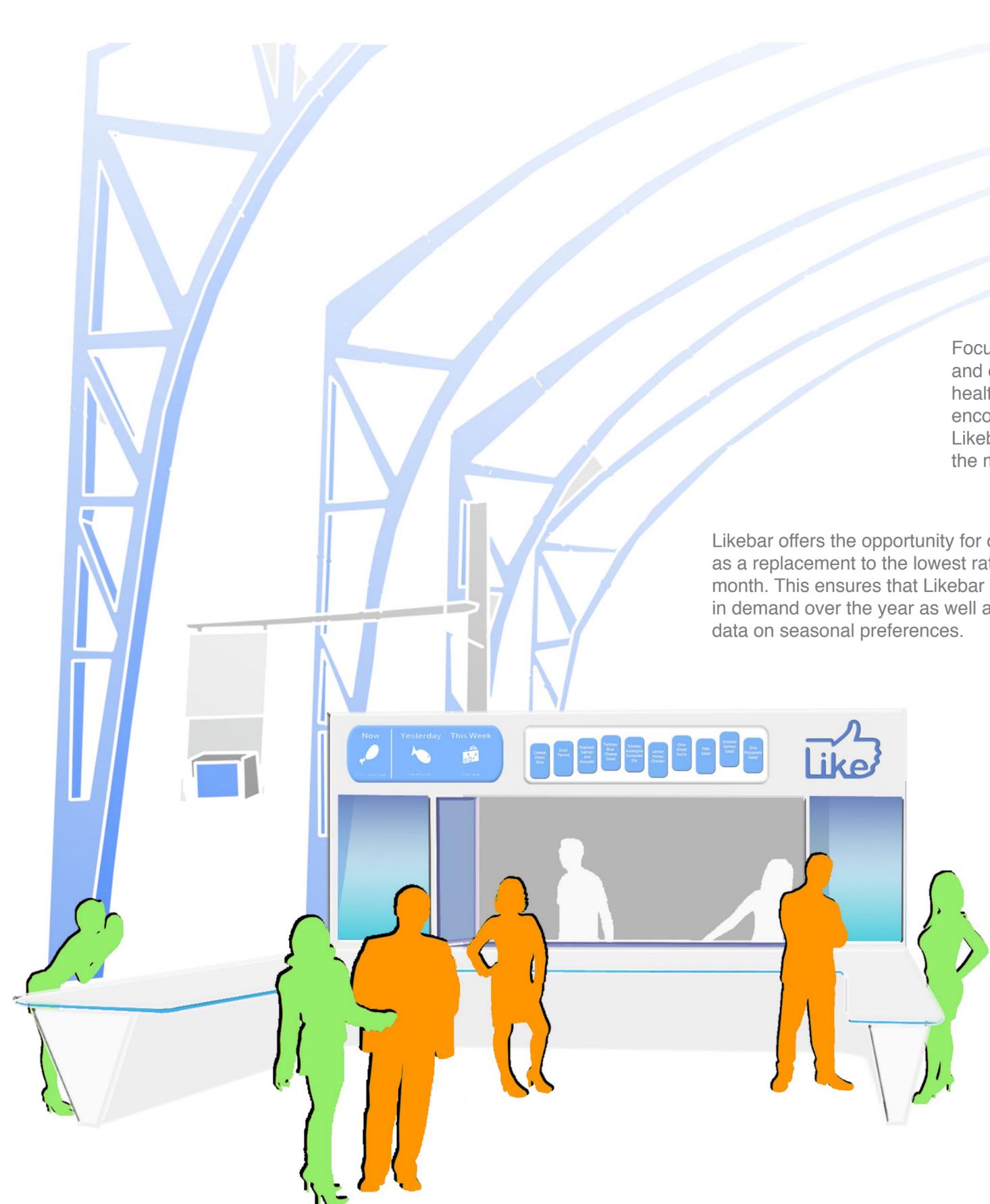
Receive your order and free portion

Scan the bar code to vote on your order

Recommend recipes and suggest a social question.

On your return; The graph has accounted your result and your order from last time is now at the top.

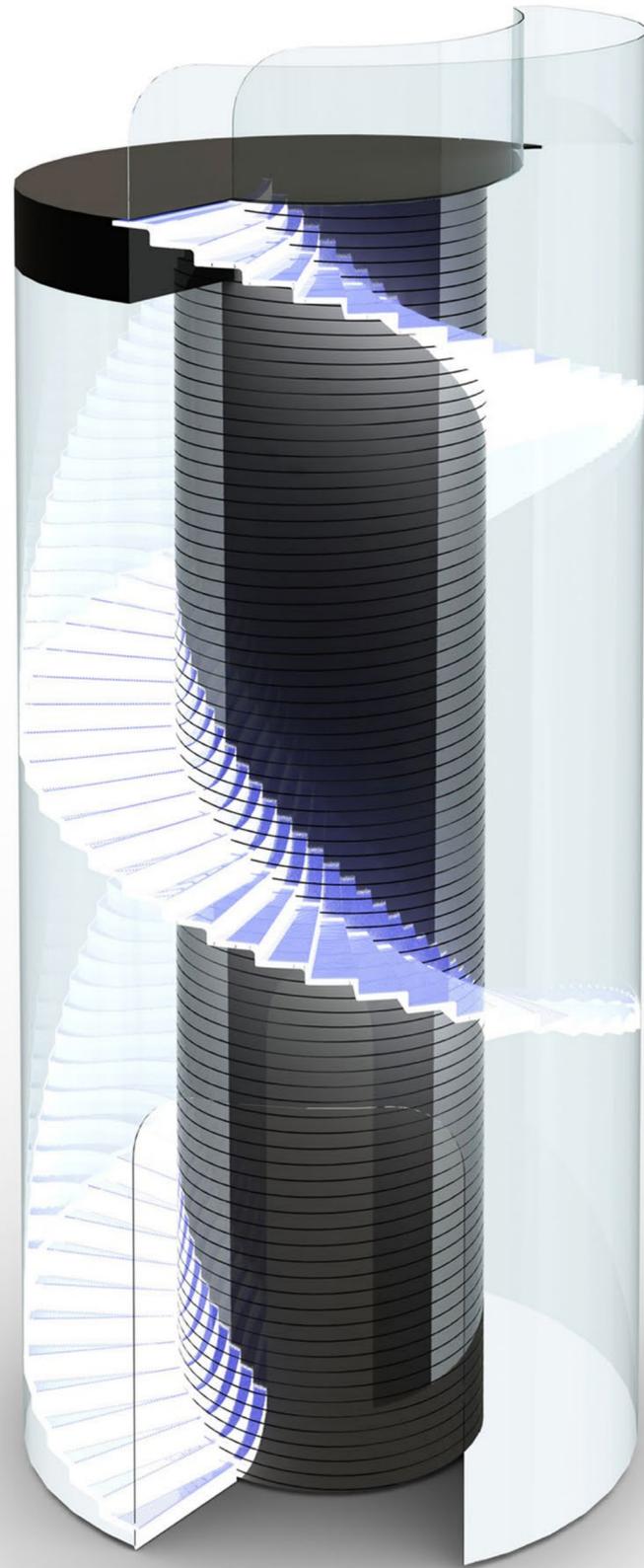
You and your friend both order another meal knowing you will get a taster of the top voted. Also your question had been chosen to go on the packaging.



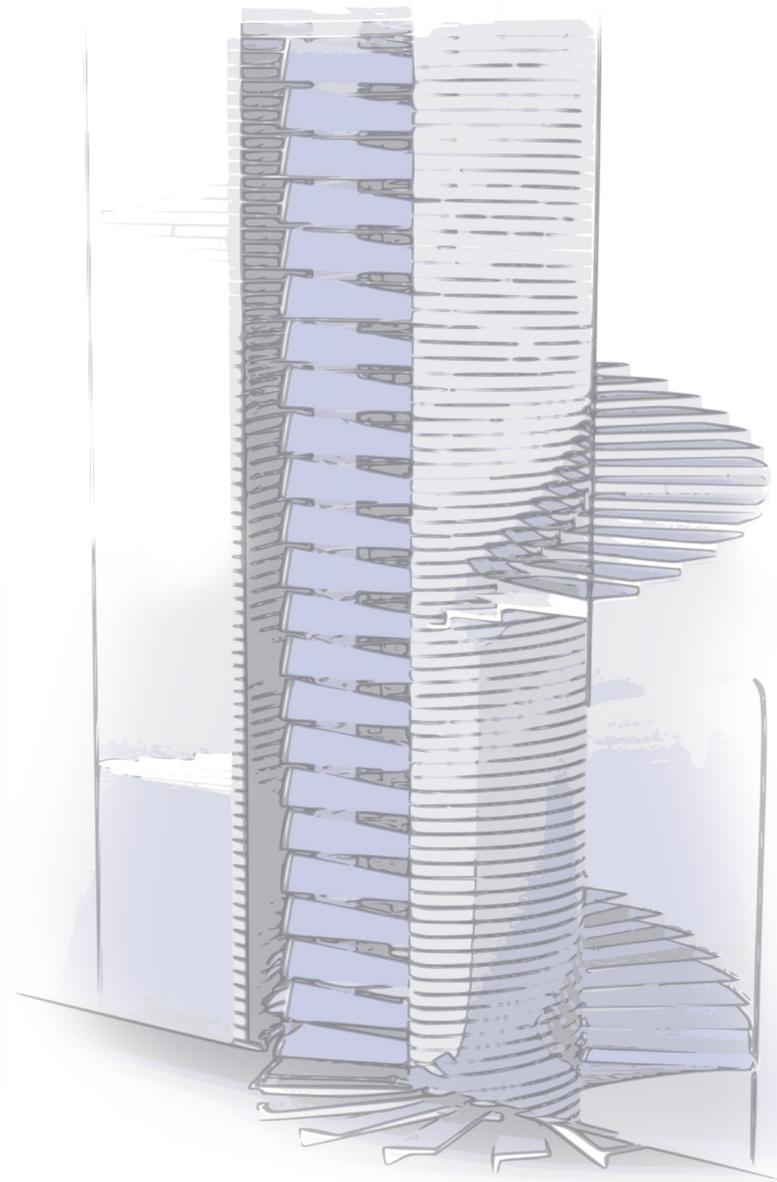
Zebadiah Liberson the founder of Zipbar, realized that the events market is continually growing and as a result there is a increasing need for portable bar units. He began developing a bespoke high-end, durable and professional portable bar system in 2009, suitable for such events as festivals, weddings, permanent outdoor bar areas and subsequently the VIP area of the 2012 Olympic Games. More recently Zipbar has found its way to Dubai.

I joined Zebadiah as part of the design and development team to detail and develop the existing components for fabrication and the minimization of production time. In 2012, I played an important role in the design and development of three more complete units from conception to final production. These new curved units have taken the company to a unique position within the market offering a more fluid and softer aesthetic. One of these is the "Arc", expanding the versatility of Zipbar and enabling it to be built into round portable bars, internal corners and external corner set-ups.





Nathan Ames first patented an escalator design in 1859 and the design has not changed since. Current escalators are restricted in height by floor space because safety legislation states that there is a maximum incline. My aim was to design an escalator that could operate in a more localized area, utilizing the space between floors as well as provide the same safety benefits as current escalators.



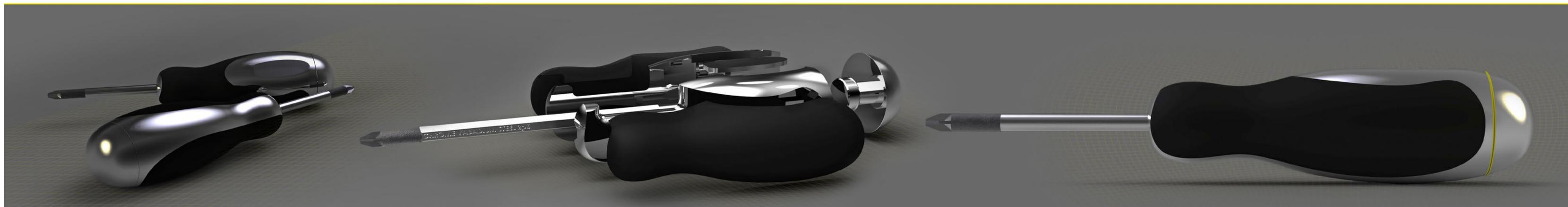
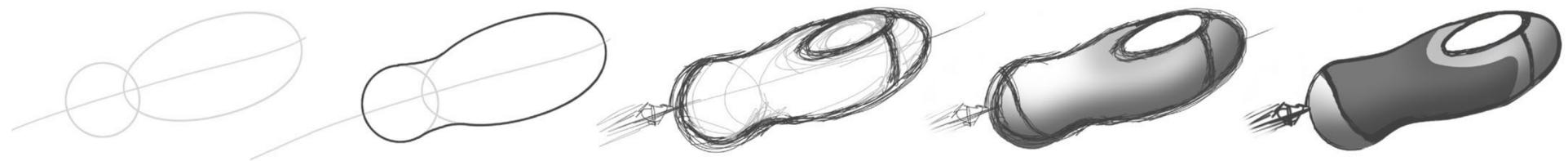
Rotating by a Helix core, steps would move around and up or down the thread. When a step comes to the top or bottom it then transitions from the thread to a runner carrying it back to the start. The continuous series of steps along with the rotating motion allows the escalator to provide an endless surface for passengers to travel on. Using a threaded core allows for a smoother power transition whilst utilizing gravity and the vertical loading of passengers. To ensure that the Helix Escalator is a comfortable ride the core is rotated by a helical gearing system, which can smoothly and quietly transfer large loads.





Screwdrivers almost define functionality yet few people know how to correctly use one, throwing into question how intuitive they are. My aim was to design a screwdriver focused on performance and reliability solely from user research and prototyping.

User testing played a key role in understanding how people were applying force through the handle and subsequently has allowed them to use the screwdriver for longer periods of time with significantly less discomfort. Prototyping resulted in the design being comfortable as well as grip-able. User research provided me with some very strong insights into the methods people used to fix a screw and retrieve it again. This research led me to incorporate a surface that could be used as a light hammer for creating a small pilot hole, minimizing injuries due to the screw slipping. Including a free spinning end positioned in the palm of the hand proved very helpful in speeding up the time it took to extract a screw from a piece of wood.





The Sherwood Group is a California-based advertising, graphic and website design and marketing communications company. I was contacted by them through my website asking if I could help in creating 3D models for one of their clients.

I was sent a series of 2D tyre drawings along with a brief description of the ideal end result. Each tyre would take a few hours to draw on Solidworks and to further render. Once completed, I would send the image files to The Sherwood Group via email. I consistently received very positive feedback for my work, and subsequently these images have been used in an American tyre brochure.

