

PEN CASE LAMP

By: Zil Shah

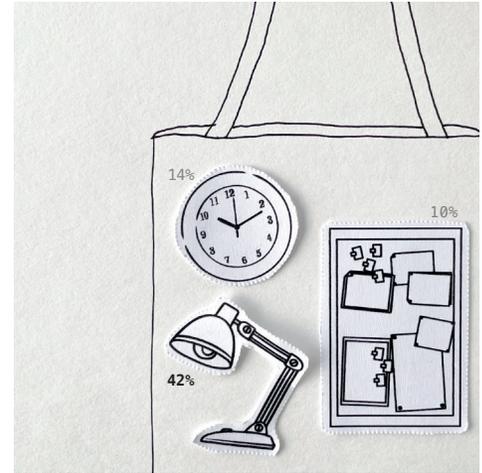
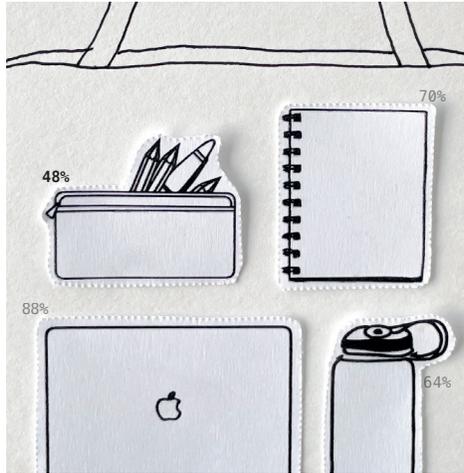
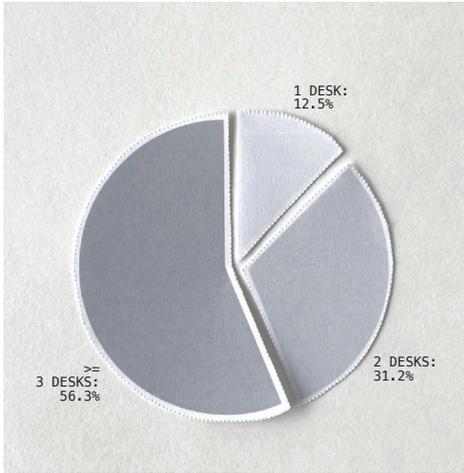


THE CONCEPT

With the hybrid working preferences rising rapidly, moving between multiple workspaces has become the new normal. While comfort and sufficient lighting within our desk spaces is key to enhancing productivity, this is not always attainable due to the transient nature of most of these spaces.

'Pen Case Lamp' - a combination of a pen case and desk lamp, is designed to be effortlessly portable. With lighting features which can adapt to the range of environments as well as the users preference, it revolutionises one's ability to make any desk feel like their own.





“how many desk spaces do you have?”
 “what do you carry between desk spaces?”
 “what do you WISH to carry between-desks?”

BACKED BY RESEARCH

The limitations faced by users moving between multiple workspaces on a regular basis was analysed through a research questionnaire conducted [48 responses].

It was concluded that one of the four essential items that people carry around with them is their pencil case, while a lot of respondents said the one thing they wish they could carry between their workspaces is a desk lamp.

INITIAL PROTOTYPE

CHOSEN DESIGN



height adjusting lamp
combined with a pen
stand, but impractical
integration of technology.



the pencil case sleeve
becomes the diffused lamp
to minimise weight, but
bad user experience.



thoughtfully combined
the first two concepts
together, but there would
be a lack of stability.



a circular form with a
flat edge for ease of
portability & potential for
a unique light interaction.



With not a lot of space and flat surfaces to work with, adding a small stand that can slot into the back of the lamp was ingenious.

FORM AND FUNCTION



With this stand, the lamp can be used in both a vertical and horizontal orientation. This gives the user more lighting preference, allowing for a more adaptable design.



Multiple iterations of the pen case lamp were created using 3D printing, due to the unique shape of the product. Each print was modified to suit the design requirements, such as clean technology integration and less warping.



DESIGN DEVELOPMENT

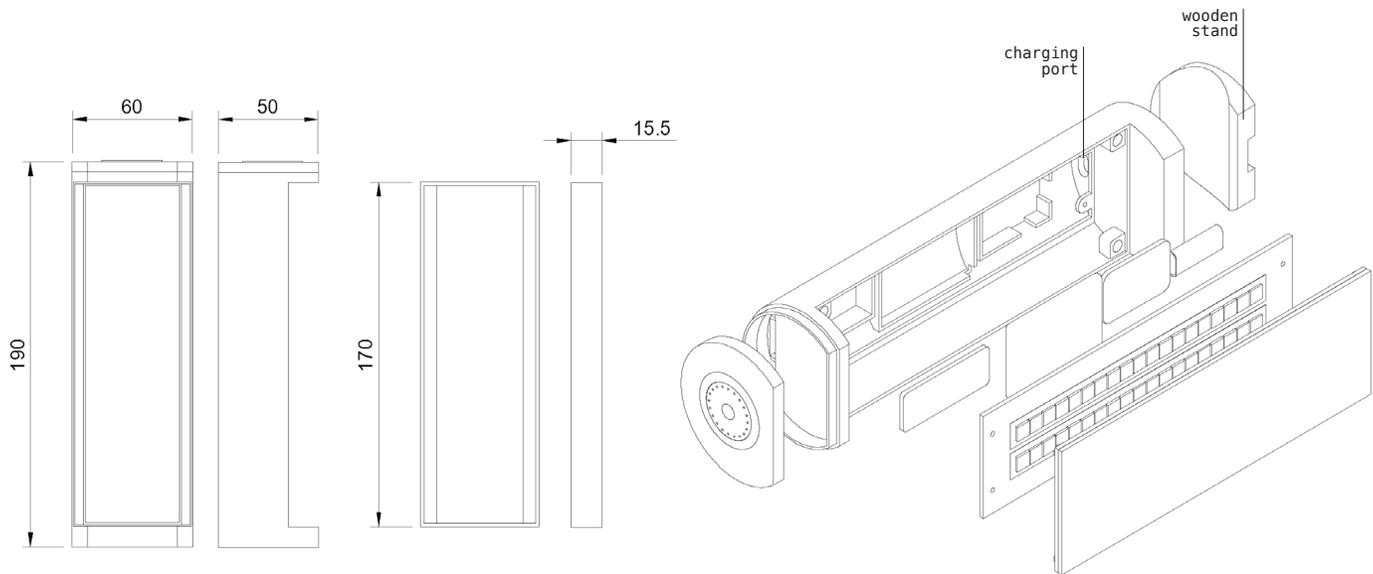
Explored a range of materials for the slot-in stand, and chose beech wood as it is lightweight and visually aesthetic.



The design initially utilised screws on the light panel to access the rest of the electronics behind, however this ruined the clean look.

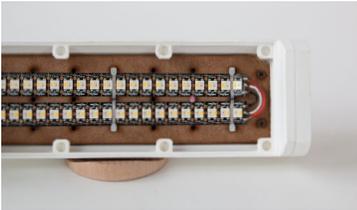
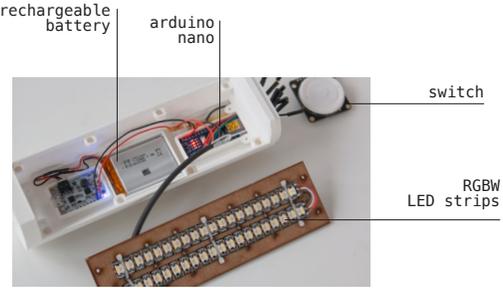
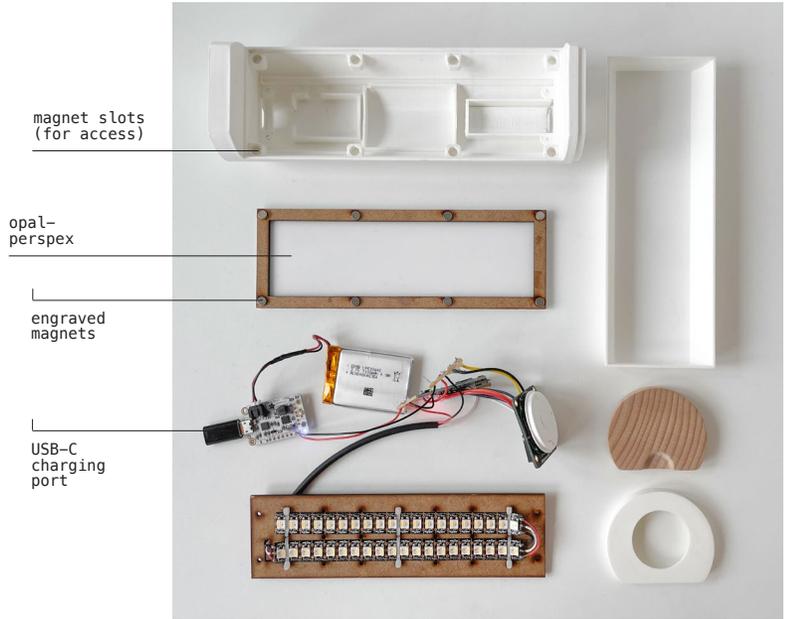
Inspired by iMac screens, magnets were engraved onto an additional border behind the screen, and are used as pegs. This way it creates a nice shadow when the light is turned on, without disrupting the minimal design of the lamp.

THE AESTHETICS



TECHNICAL DRAWINGS

The dimensions are carefully considered so that this portable product doesn't feel bulky, but there is also enough space to fit stationery essentials into the pencil case. Everything was also perfectly measured out so all the electronic components fit in seamlessly.

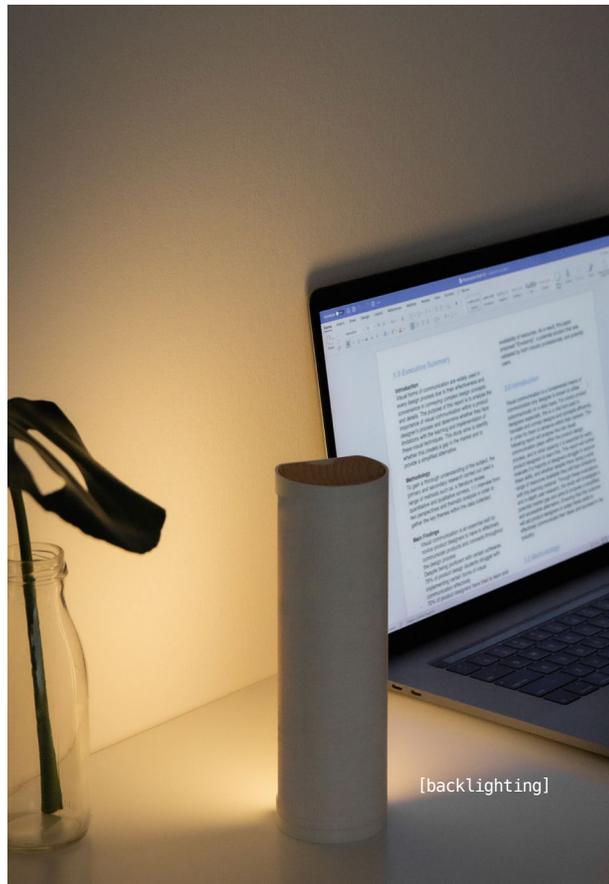


THE ASSEMBLY

The design is created in such a way that all of the electronics can be easily assembled, repaired, and replaced. Even the USB-C charging port is hidden behind the wooden slot-in stand, so when not in use, it doesn't detract from the aesthetic.

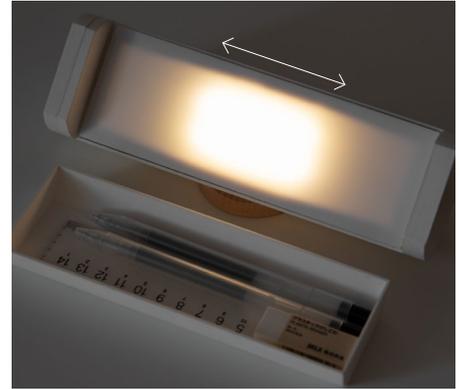


THE DETAILS





rotate dial
to change
brightness



change colours
between four
hues of white

product manual
provided within
the packaging

THE BRANDING

