



Polly Leeman

Product and Furniture Designer  
2020 Portfolio

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#### **2016-2020**

Final year course representative  
Responsible for organising the social media response for the class of 2020.



#### **Summer 2018-2019**

Design Intern  
Responsible for client space plans and technical drawings.  
Designed a range of decorative acoustic panels that are part of Ocee's current portfolio.

#### **Summer 2019-2020**

Freelance design support.



#### **June - August 2020**

2 month graphic design internship  
An opportunity to broaden my skills in an alternative design sector.  
Experience in a small business, working on packaging and sales packs.

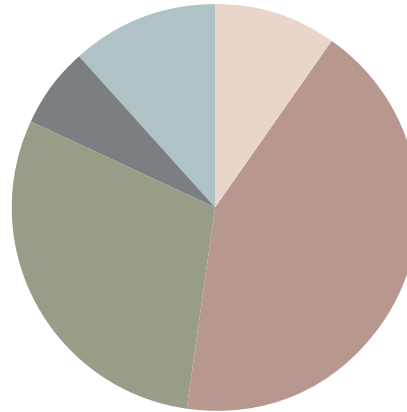


## **Vuoro - Dawn simulation and circadian system**

Final Major Project  
2020

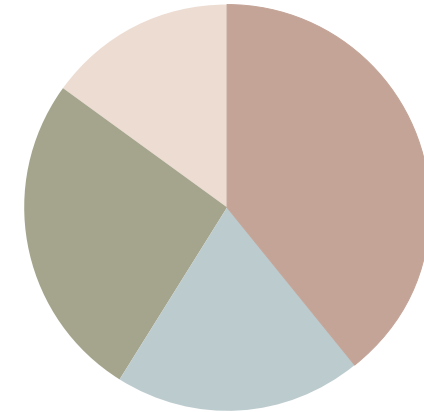
Vuoro is a dawn simulation light with a circadian regulation system. The project uses materials to create a sense of calm. The light uses the benefits of red and blue light to improve sleep and reduce the effects of sleep inertia.

Typically, when you wake up how do you feel?



- Tired
- Groggy, it takes me a few hours to feel alert
- Other
- Refreshed and revitalised
- Exhausted

How well do you understand the term 'circadian rhythm'?

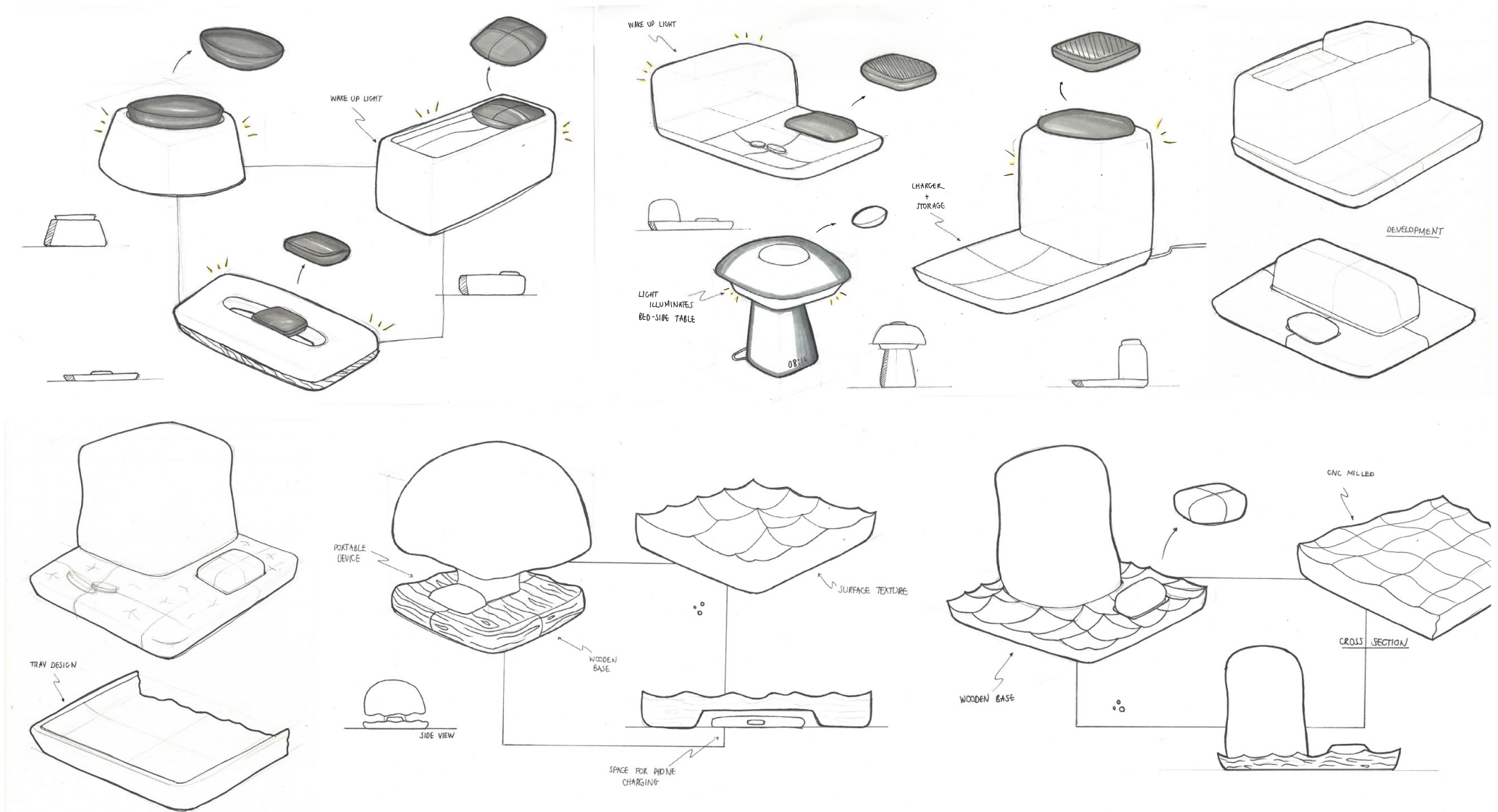


- I have never heard of it
- I know what it means but do not understand how it effects my day to day life
- I have heard of it but I am not sure what it means
- I understand how my circadian rhythm effects my day to day life

The research process included a survey which shaped the rest of the project. The first key finding was that 79% wake up feeling tired/groggy or exhausted, this informed a focus on sleep inertia and how it can be avoided. 85% have never heard of a circadian rhythm or don't understand how they effect their lives. This informed the HUB and pebble aspect of the design where you set habits to be reminded of.

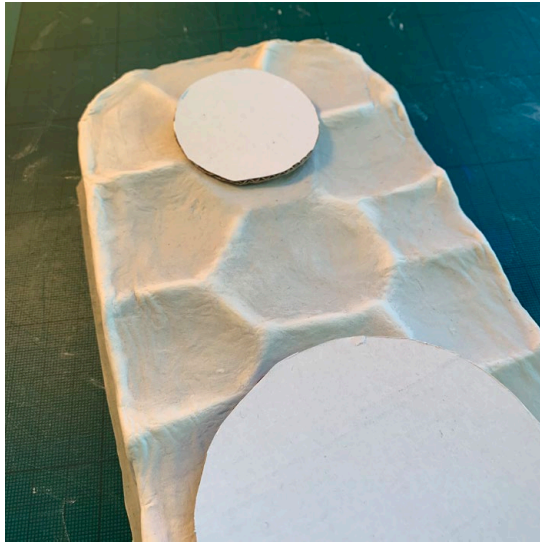
**79%** wake up feeling tired/ groggy or exhausted

**85%** don't understand how circadian rhythms effect their lives



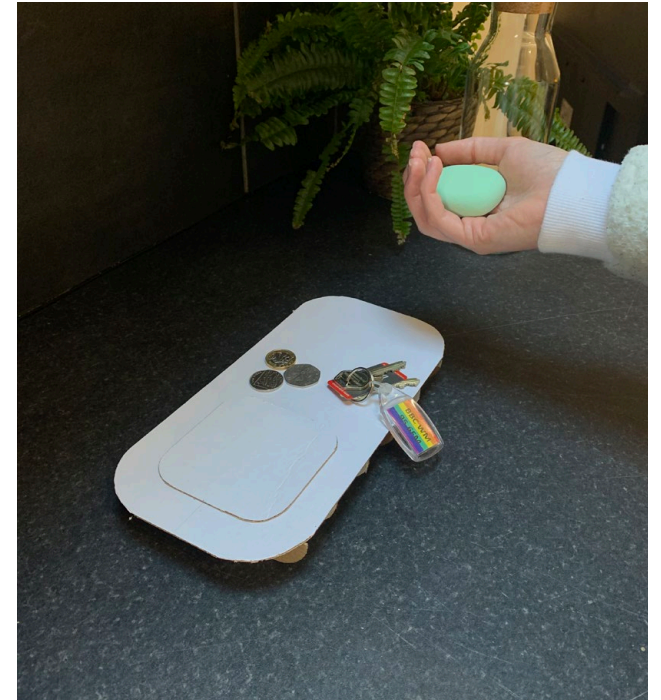
Sketches included storage aspects which evolved to a carved wooded base. Finish design influences were used.





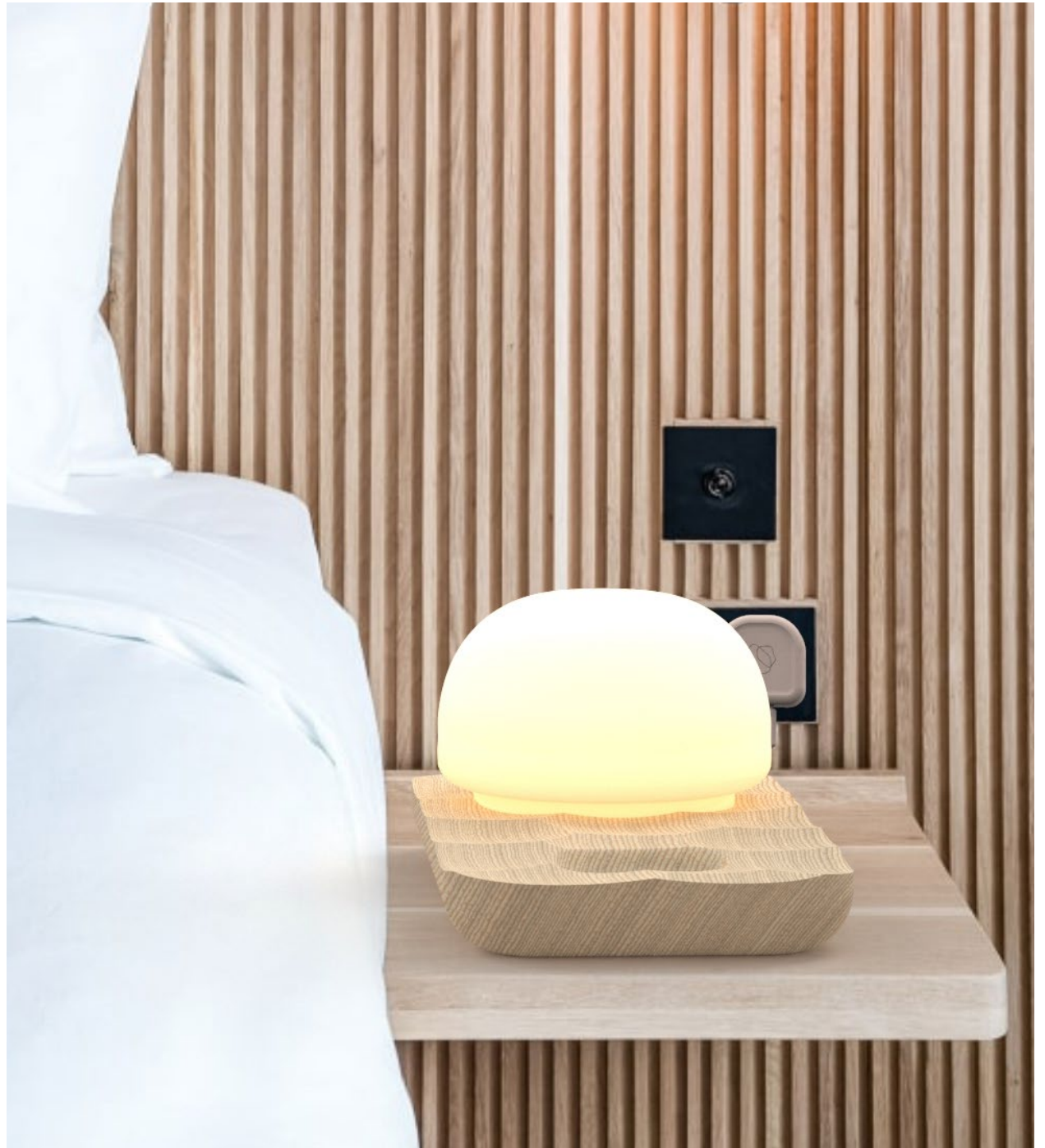
Due to the Covid-19 crisis the intended manufacturing processes were not possible, modelling clay and card were used to portray intended form and texture.



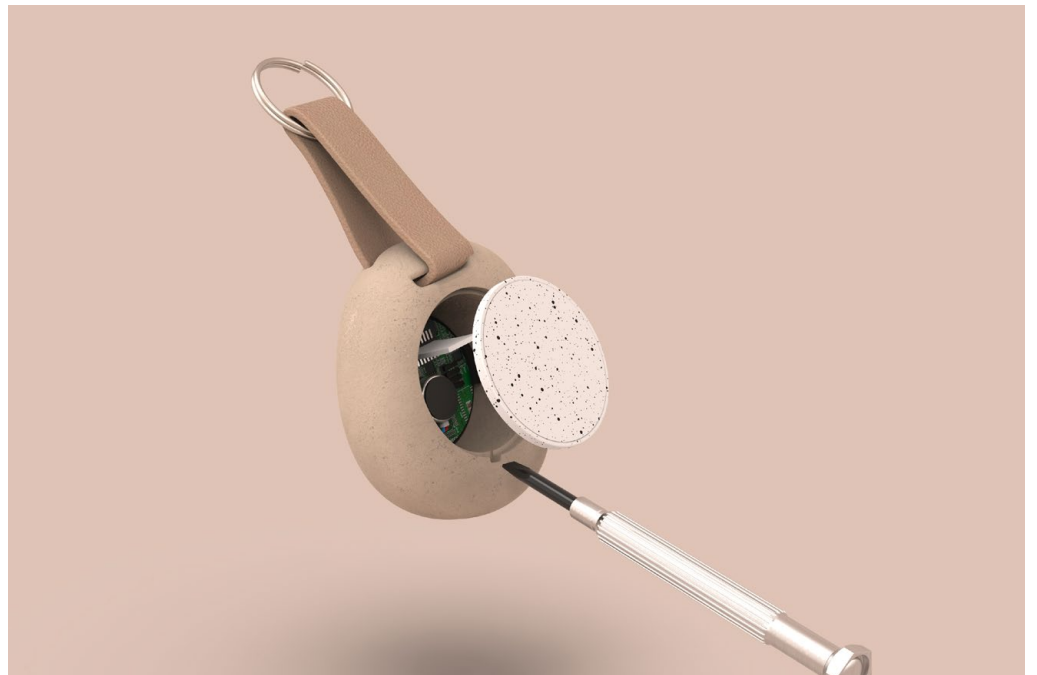


A HUB is used to set habits for the day, the portable pebble is taken with you throughout the day which reminds you of those habits and the will tell you when its time to wind down. The pebble is placed on the light and a red light sequence starts which helps to drift into stage one of the sleep cycle.

The dawn simulation light suppresses Melatonin and naturally aids the increase of Cortisol and Serotonin. This kick starts the circadian rhythm







Designed to last. Competitors were badly made and couldn't be taken apart. All elements of vuoro are designed to be taken apart. Shared injection moulded parts reduce manufacturing energy consumption. Packaging is designed to last so vuoro can safely move with you.

**Slip cast porcelain light**



**Carved FSC Ash base**

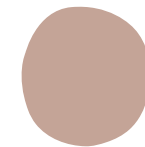


**Sustainable cast  
Jesmonite pebble**



*olive*

*canyon clay*



*sleepy blue*

*chiffon*



An interface for the HUB has been fully designed in Adobe XD. Both the HUB and pebble use E-Ink screens to reduce the strain on eyes reduce blue light exposure which suppresses the production of melatonin in the evening.



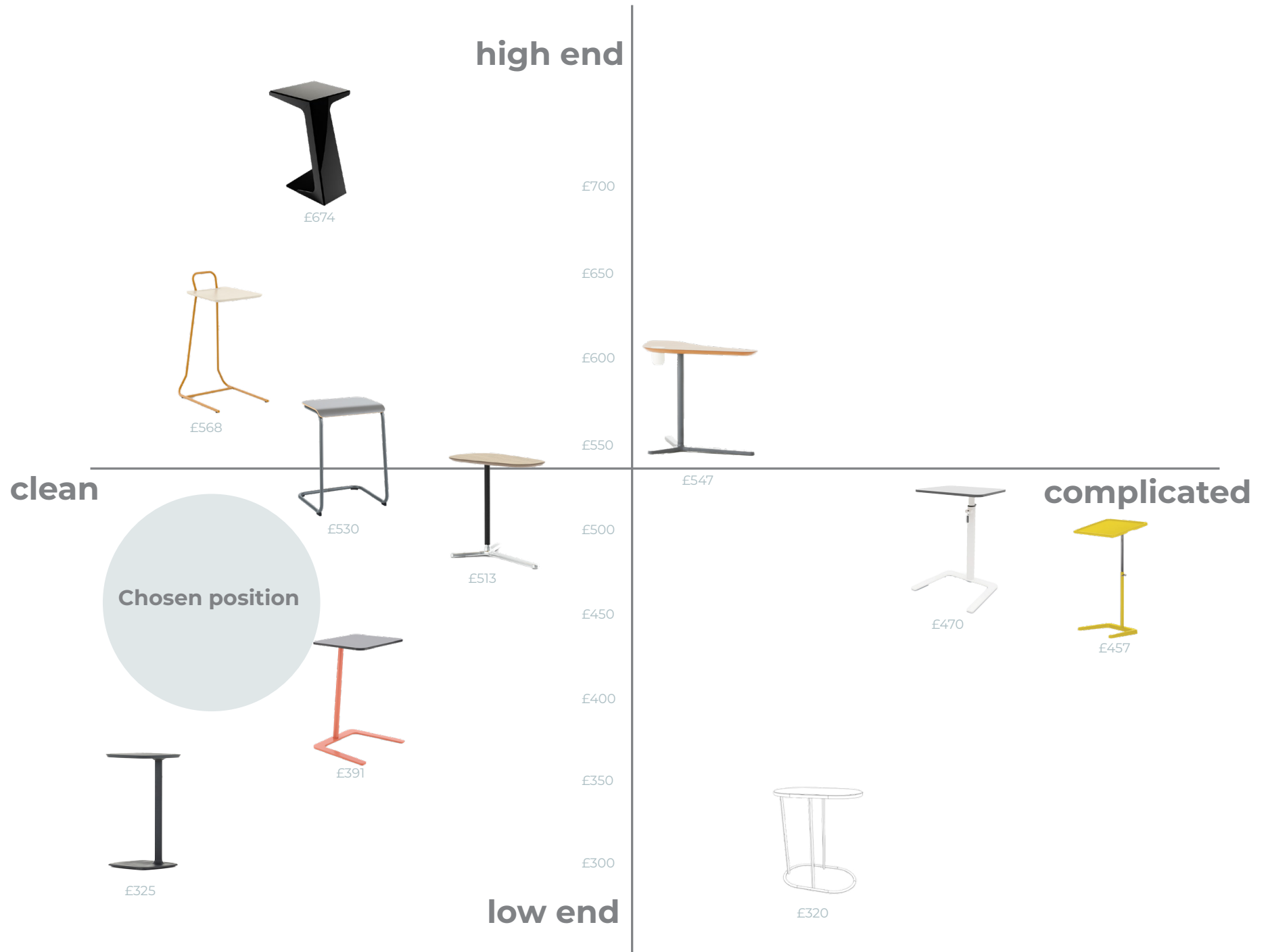
## Laptop table

Live project with Simon Pengelly

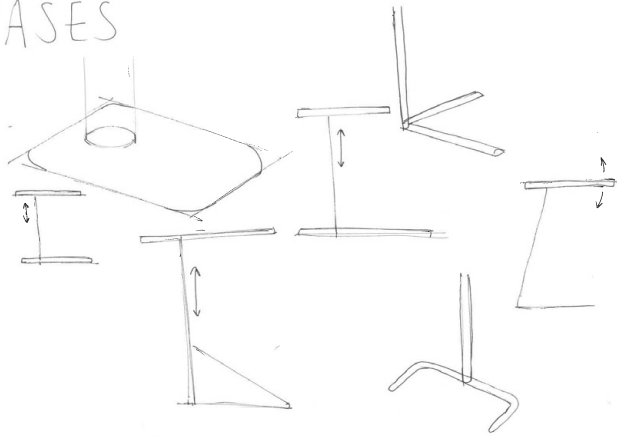
2019

My minor university project in collaboration with Simon Pengelly. The laptop table focuses on agile working in open plan offices. The handle can be used to pull the table around for different uses. These tables are often used as a touch down temporary solution so the coat hook provides storage.

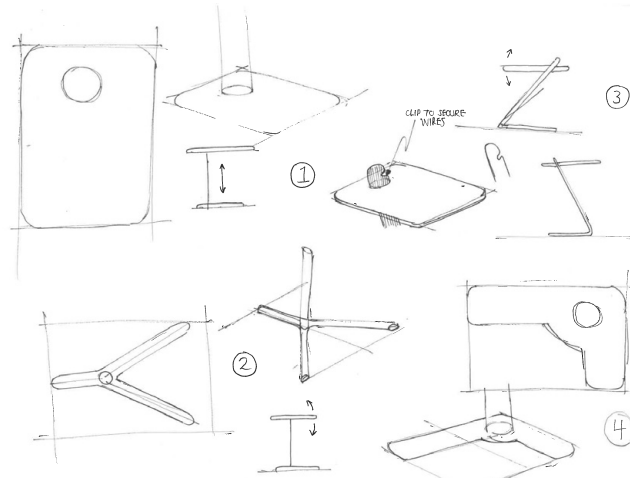
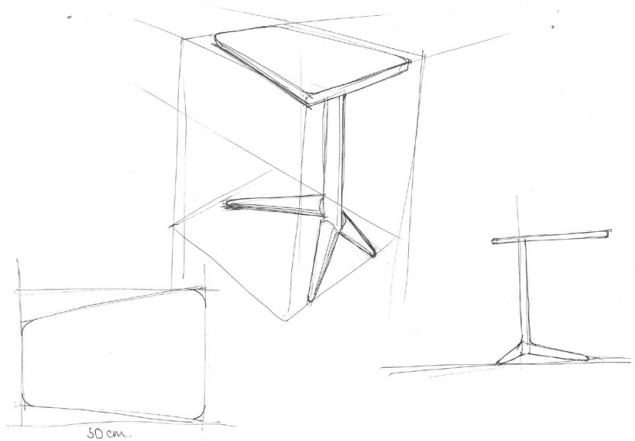




# BASES



CONCEPT TWO.



DECISION A

A

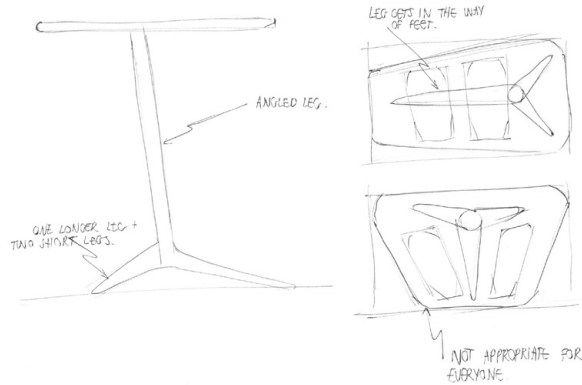
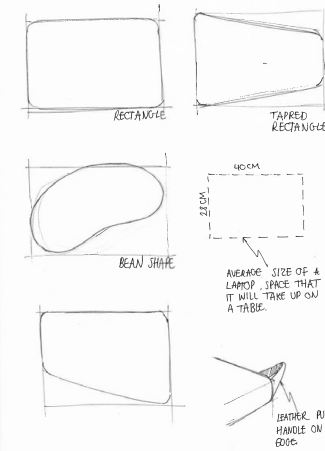
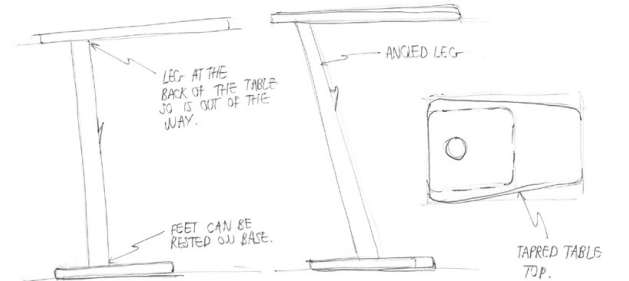
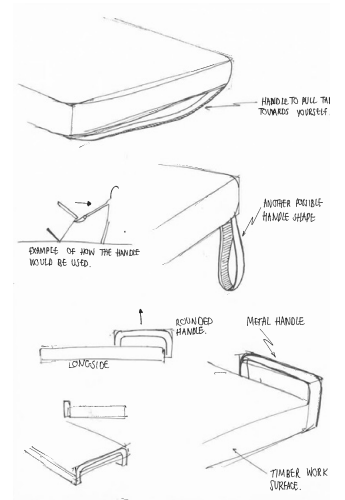


Table top size



DECISION B







Multiple full scale models were made to test the dimensions and handle. All models were tested with people in open plan working environments.

Radio frequency moulded  
Plywood with an Ash  
lamine finish.

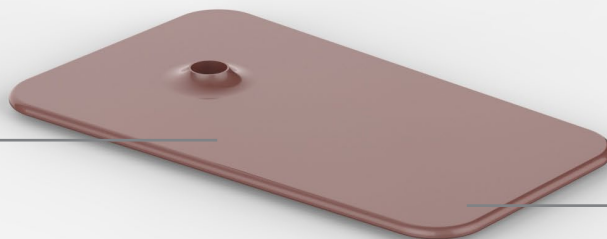
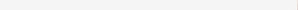
M6 Wood inserts

Ash coat hook

Extruded aluminium column,  
powder coat finish.

Die cast Aluminium base

Silicone gliders









## Botanical Panels

Ocee design  
2019

A range of acoustic dividers used to split up space in open plan offices. I designed the first for Clerkenwell design week 2019 and was later asked to design a range. They are available to buy as part of Ocee design's portfolio.



















Thank you.

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