# PRODUCT DESIGN PORTFOLIO

RÍAN TOBIAS EDMONDSON

REDESIGN OUR FUTURE

# ABOUT ME

## *Hi! My name is Rían.*

*I am a currrent Product Design student at Bournemouth University, with high aspirations and a very creative mindset.*

*This portfolio of my latest work showcases my passion for design and the skills I have gained over time.*

## EXPERIENCE

*Seagry Pre-School* (2016)
*JD Wetherspoon* (2021)
*AirPress Developments* (2022/2023)
Design Society Treasurer (2022/2024)
FoDE (BU) Fundraising Coordinator (2024)

## EDUCATION

Bournemouth University:
2020 - *Present: Bsc Product Design*

Sheldon Secondary:
2013 - 2018: *GCSE Qualifications* (A*-C)

Sheldon Sixth Form:
2018 - 2020: *A level Qualifications* (A-C)



# DESIGN PROCESS

## Design Brief:

We were allowed to research a field of interest in order to establish a need for a new product or a problem that needs to be solved. My research led me to fire-safety for  D/deaf individuals.

## Process:

The ongoing process has been well documented, with various vivas to check our progress along the way. I am following the ‘double diamond’ method; constantly switching between primary/secondary research and developing my working prototype to suit the target market.

## Outcome:

The current outcome is a small device that emits a light and set of vibrations when a nearby fire/smoke alarm is active. The device actively ‘listens’ for the correct frequency at a suitable decibel level; when these two criteria have been achived it activates.

Ergonomics and usability, taking into consideration inclusive design, has been a key aspect of this project. As such, I’ve developed unique straps and attachment methods for the intended users.

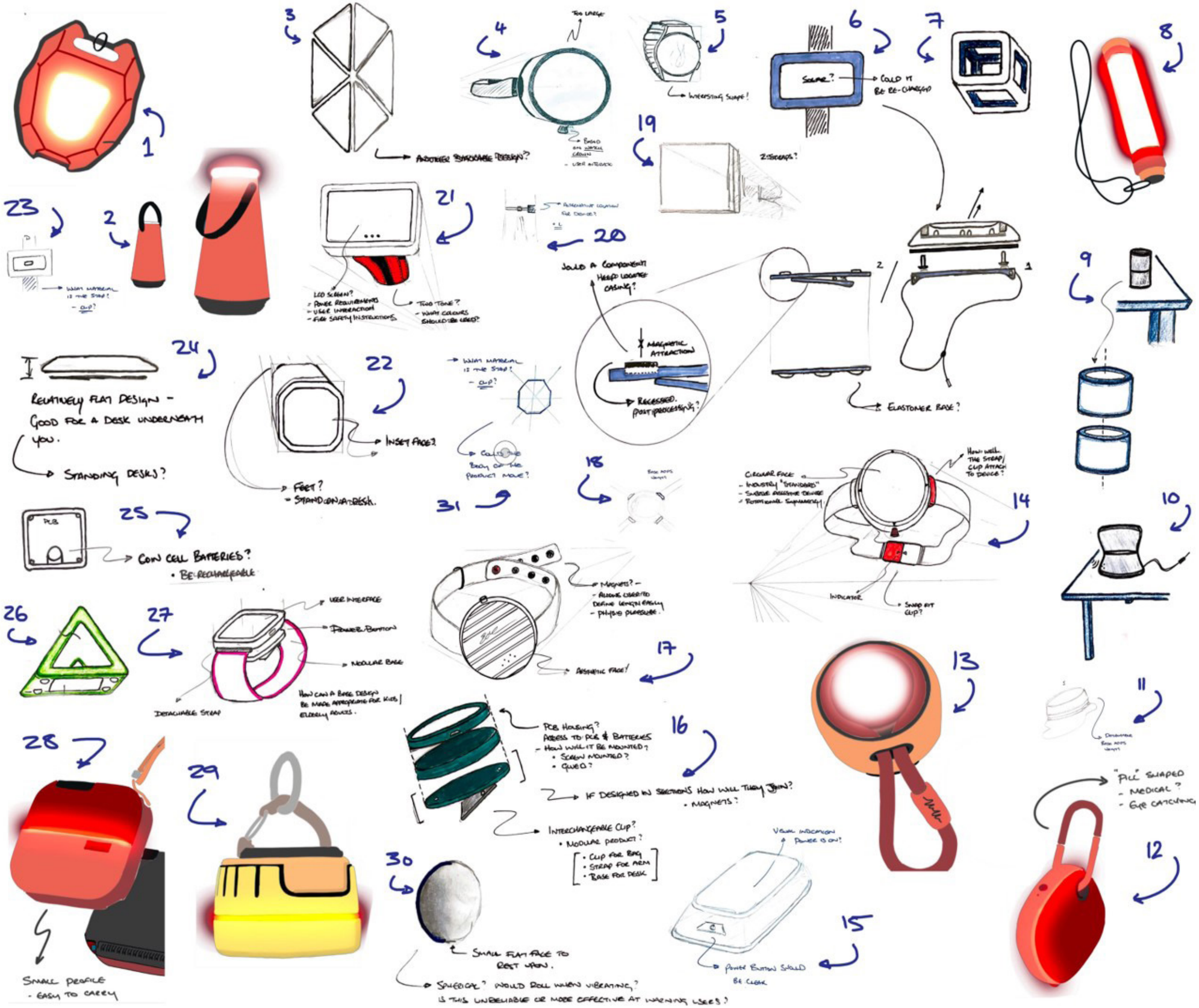
# DESIGN PROJECT 01

### FINAL YEAR PROJECT



# FINAL PRODUCT




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Another Shoulder Design?
Too Large
Interesting Shape!
Solar?
Could it be re-charged
Z-Storage?
Alternative location for Device?
Wash material is the Strap?
- Clip?
LCD Screen?
- Power Requirements
- User Interaction
- Fire Safety Instructions
Two Tone?
- What colours should be used?
Could a Component Hold Logitech Casing?
Magnetic Attraction
Recessed. Post processing?
Elastomer Base?
Relatively flat design - Good for a desk underneath you.
Standing Desk?
Inset Face?
Feet?
- Standard Anti-Desk.
Wash material is the Strap?
- Clip?
Could the Body of the Product move?
Base acts Weight
Circular Face:
- Industry "Standard"
- Suggest Additional Device
- Potential Superiority
How will the Strap/Clip attach to Device?
Indicator
Snap fit Clip?
PCB
Coin Cell Batteries?
- Be Rechargeable
User Interface
Power Button
Modular Base
Detachable Strap
How can a Base design be made appropriate for kids/elderly adults.
Magnets? -
- Allow user to define length easily
- Physio pleasure.
Aesthetic Face!
PCB Housing?
Access to PCB & Batteries
- How will it be mounted?
- Screw mounted?
- Glued?
If designed in sections how will they join?
- Magnets?
Interchangeable Clip?
- Modular product?
- Clip for Bag
- Strap for Arm
- Base for Desk
Small flat face to rest upon.
Spherical? would roll when vibrating?
Is this unreliable or more effective at warning users?
Visual indication Power is on?
Power Button should be Clear
Small Profile
- Easy to carry
"Pill" shaped
- Medical?
- Eye catching

# DESIGN PROCESS

## Design Brief:

We were given a considerable amount of creative freedom throughout this project; the brief stated that we should design a light for any purpose with adequate research.

## Process:

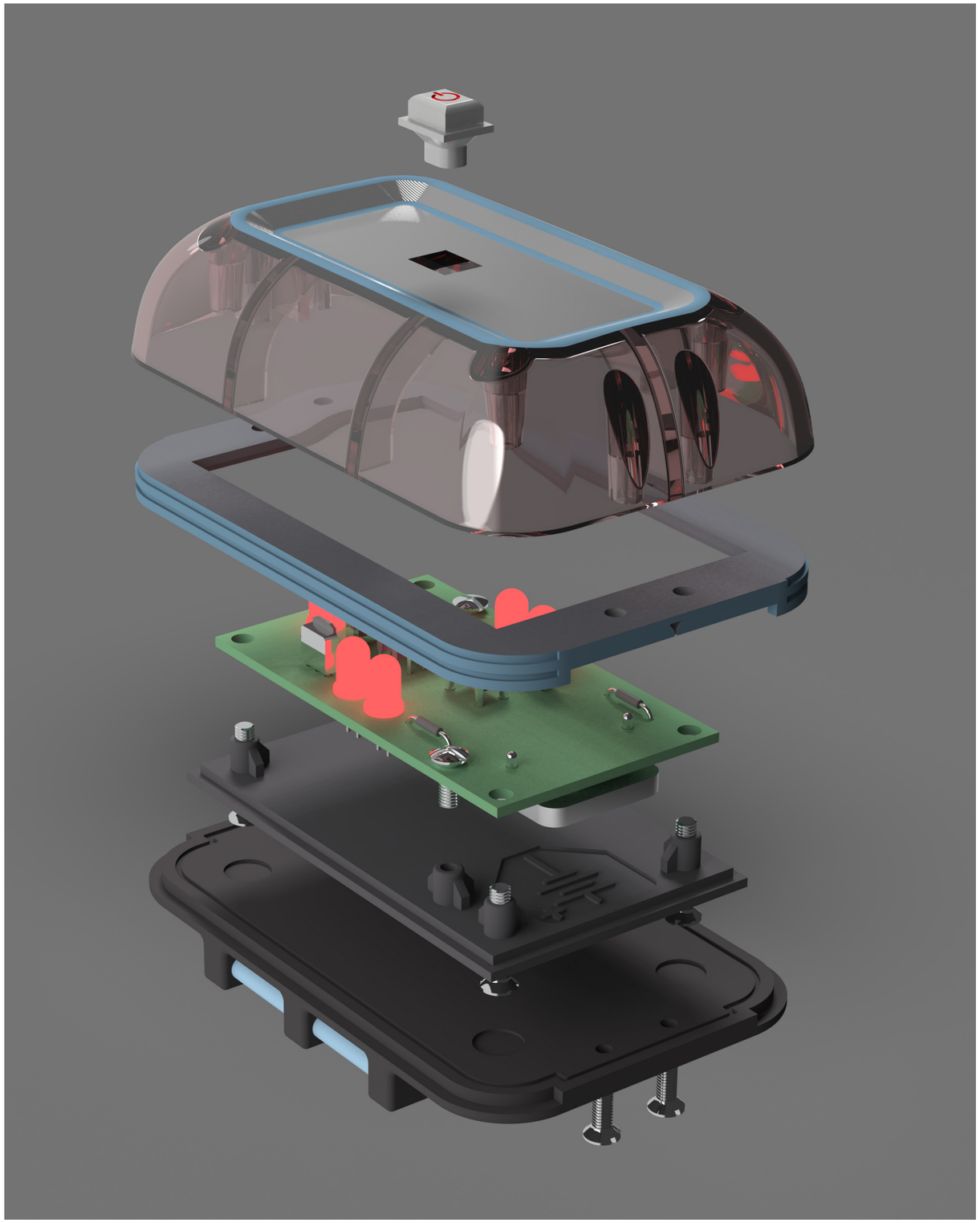
Designing the light involved considerable research into patents and international standards (i.e BSI). My project was orientated around helping night swimmers be more visible, without affecting their activity.

## Outcome:

The light is therefore lightweight, waterproof and bright enough to be seen in its desired environment.

# DESIGN PROJECT 02

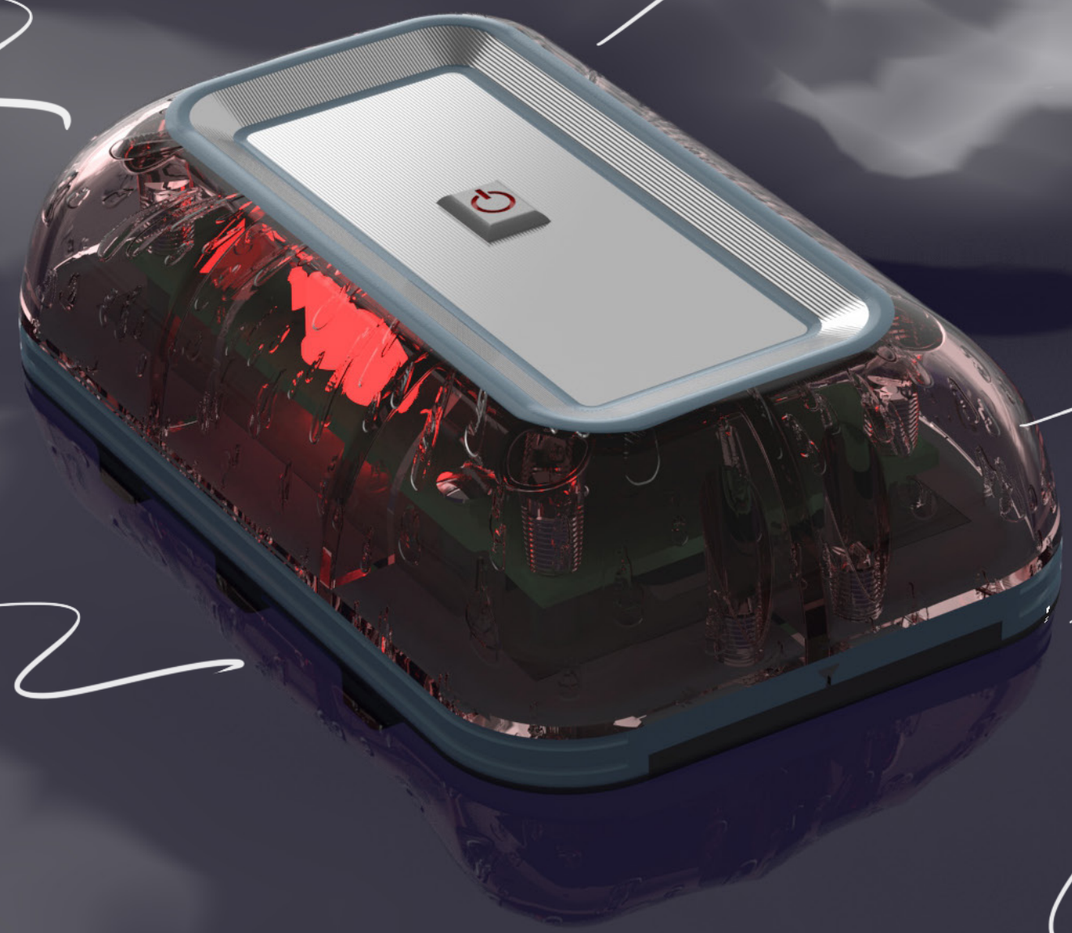
## BSC LIGHT PROJECT



# DESIGN ANALYSIS

TRANSPARENT CASING

REFLECTIVE SURFACE
AND BUTTON



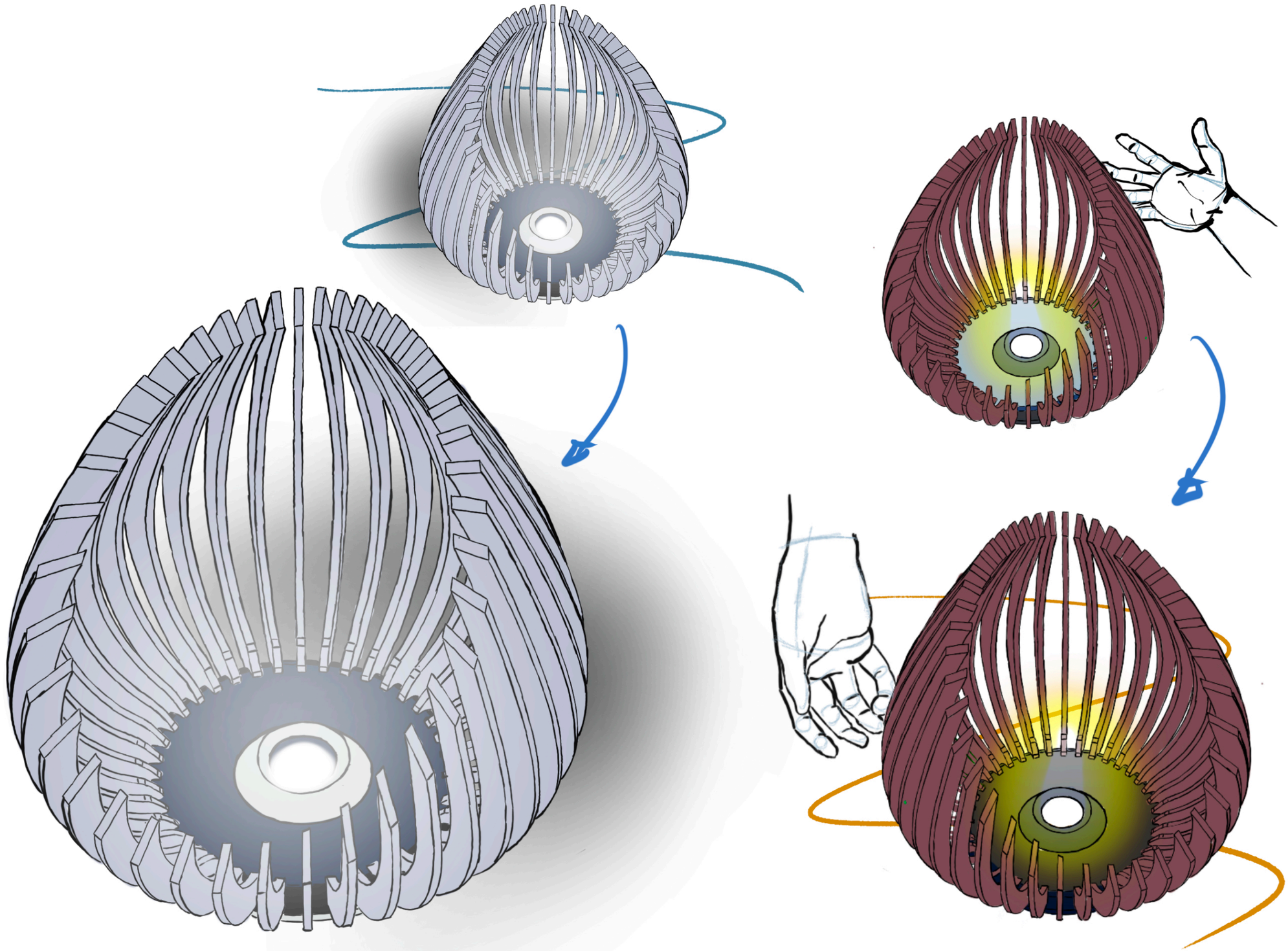
PCB + LEDS

STRAP
ATTACHMENT

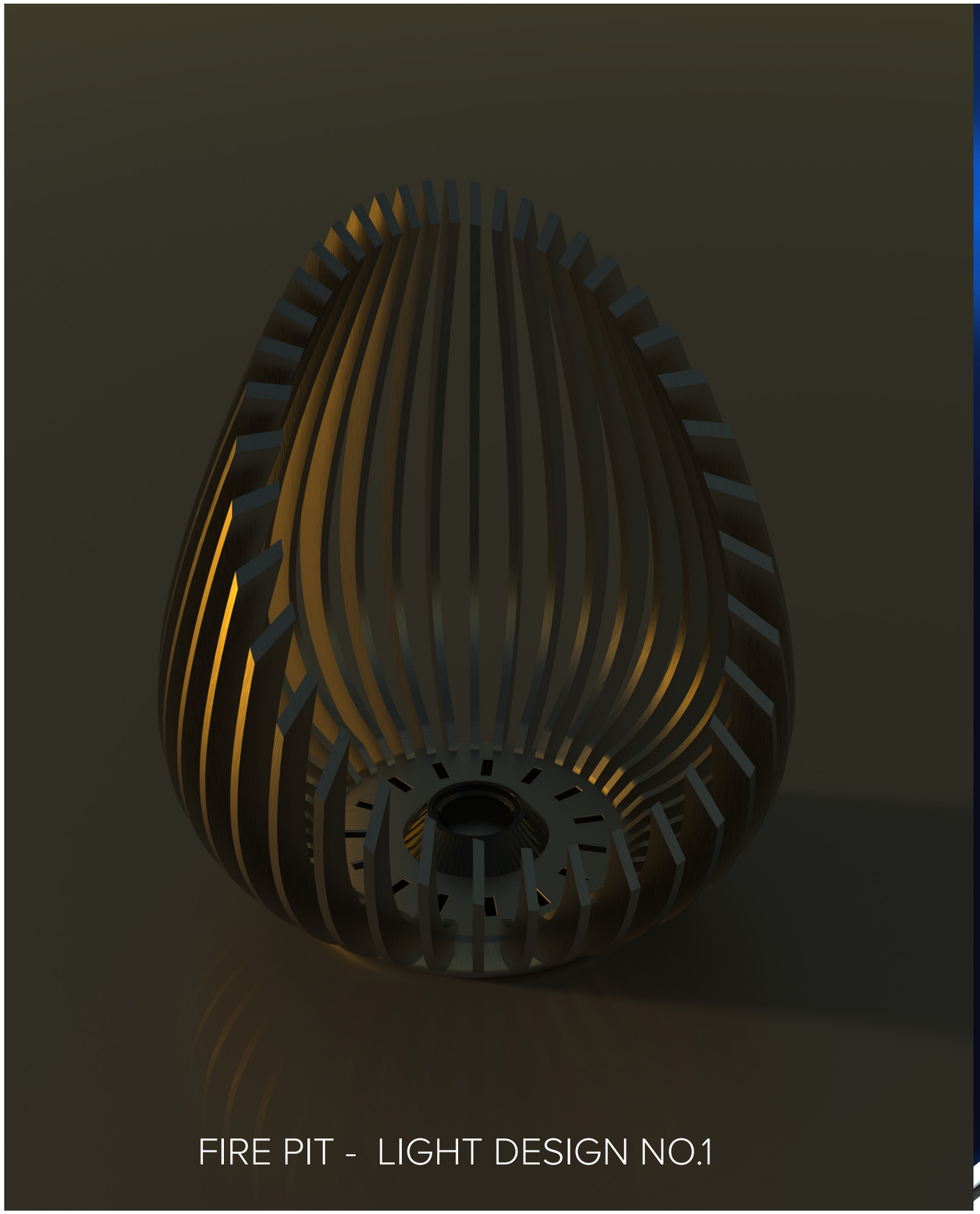
LIP + GROOVE

# DESIGN PROJECT 05

## SKETCHES



# ADDITIONAL PROJECTS



FIRE PIT - LIGHT DESIGN NO.1



STANDING - LIGHT DESIGN NO.2

# KITCHEN DESIGN



# DESIGN PROCESS

## Design Brief:

This project took place during 2020, during the first national lockdown. The design brief specified that the product must be designed to “bring family members together” and be space efficient.

## Process:

The design was made to be batch manufactured, each of the parts had a sutiable jig and could be automated if necessary.

## Outcome:

The final design is something I’m incredibly proud of, I believe it shows all aspects of my practical skills. The mechanisms hidden inside the table are complex, requiring appropriate tolerances and an eye for detail.

# DESIGN PROJECT 06

## COLLAPSABLE TABLE



# DESIGN ANALYSIS

SEGMENTED TABLE TOP

ENGRAVED CHESS BOARD

STAINLESS STEEL IRIS LEAVES

SUSTAINABLY SOURCED BASE

ACTUATOR MECHANISM



# THANK YOU FOR YOUR TIME

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