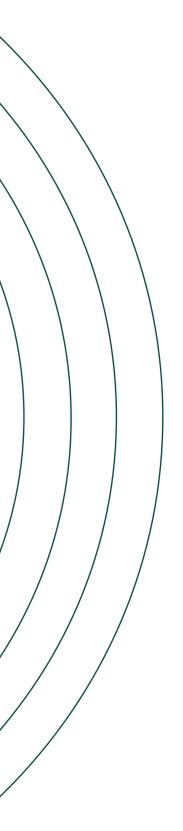
KRISTIN IVANOVA

Sustainable design portfolio





EDUCATION

BA(Hons) INTERIOR DESIGN KLC / West Dean College 2021-2022

MEng(Hons) CIVIL AND ARCHITECTURAL ENGINEERING University of Bath 2012-2017

SKILLS

REVIT	
AutoCAD	
Vectorworks	
SketchUp / Layout	
Adobe InDesign	
Adobe Photoshop	

INTERESTS

Reclamation and repurposing Art and Craft Live music Wine tasting Travelling Exploring the outdoors

DESIGN INTERESTS

I am passionate about low carbon interior designs through adopting reclaimed and natural materials to create flexible spaces that develop with the needs of the end users. With a background in structural and facade engineering, my strong understanding of construction principles enables me to experiment with adaptation of spaces to create aesthetically and experientially compelling, as well as functional designs. My key design and research interests can be divided into the following three categories.

As part of my studies at KLC, I also undertook research into the adoption of Circular Economy for interior design applications. The research can be made available on request.





WASTE REDUCTION & MATERIAL REUSE

SOCIAL & EMOTIONAL

DURABILITY



SPATIAL FLEXIBILITY & FUTURE ADAPTABILITY

CONTENTS

DESIGN PROJECTS

SECTION 1: COMMERCIAL DESIGN

SECTION 2: SOCIAL DESIGN

TECHNICAL DETAILS

PRECEDENT DETAIL STUDIES

STAIRCASE DESIGN



SECTION 1: Design projects



RETAIL DESIGN



BRIEF

"A compelling, unique, and innovative design proposal for a retail space in the year 2041"

PROJECT SUMMARY

Concept: Disconnect to reconnect

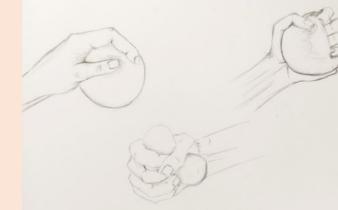
To make the design 'compelling' and 'unique', this project will look to fill in the gaps left behind from the future development and catering for the public's need to detox from technology. Physical clay workshops offer the perfect technology free opportunity to separate from busy London and build connection with others, including makers and artists.

This project demonstrates concept development and application.

Sketches and models inspired by the physical connection between the clay and the maker.













RETAIL DESIGN

CLIENT MAUD & MABEL

BRIEF

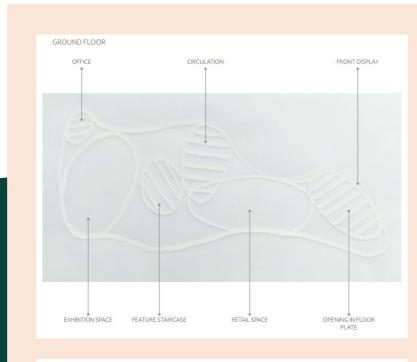
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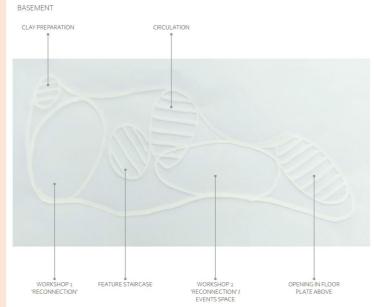
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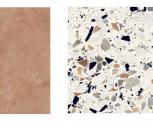




Material palette inspired by the history of the brand (clay, wood & textiles). Wherever possible reclaimed materials where specified.

Adopting the forms in derived from the clay models to inform the

space layout.









VIEW FROM ENTRANCE



Renders of the modelled space using Revit.







VIEW INTO WORKSHOP 2

VIEW INTO KILN / GLAZING AREA



SOCIAL DESIGN

Need. Right: Diagrammatic representation of the proposed programme

Left: Brief

development

adopting Bradshaw's

taxonomy of Social

& key adjacencies.

Programme translated

in the Ground and First

floors of the Arding

and Hobbs building.

Normative need "Standard laid out by specific authority" (KLC) tandard laid out by speechic authonty (RLC) Area Local Plan - key developmental points focusing on nature / sustainability, active travel and health Climate Emergency Air Quality Management Plan . The brief Preservation and integration of heritage (Arding &Hobbs) Feltneed Comparative need idea of want" (KLC) Service possessed by one group but not the other. Challenges with integration in the cycling community related to gender and ethnicity 55% of ethnic minorities that do not cycle would like to start. Making cycling equipment and facilities available to all (regardless of ethnicity, gender or financial status) Running educational servi and repair sessions to increase confidence Create a cycling community for beginner / leisure cyclist remove prestige Expressed need "service of a need is demanded" (KLC) Public consultation and surveys highlight the need for improvement to cycling facilities. Diversifying cycling through encouraging visibility and expanding cultural awareness



CLIENT WANDSWORTH COUNCIL

BRIEF

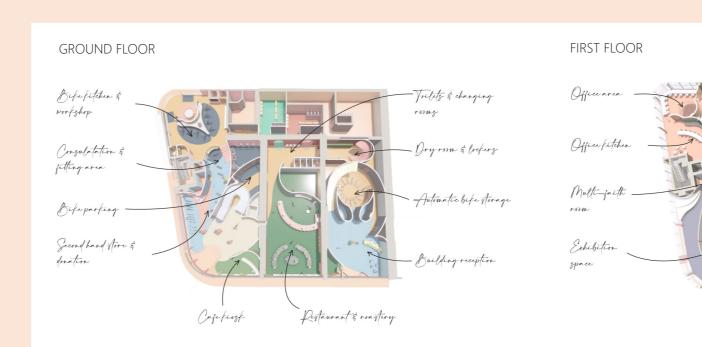
Design two storeys of the Arding & Hobbs building to accommodate functions addressing a social need.

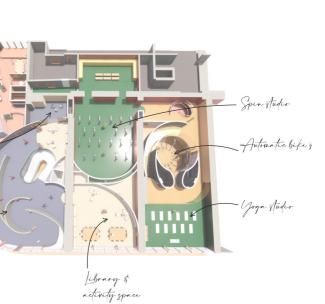
PROJECT SUMMARY

Concept: What's behind the curtain?

This project focused on enabling the increasing of cycling in Clapham Junction and the surrounding area through creating an inclusive cycling centre that breaks down the cultural, social and financial barrier that may prevent the uptake of cycling.

This project focusses on identifying a social need and creating a space that currently does not exist.





SOCIAL DESIGN

CLIENT WANDSWORTH COUNCIL

BRIEF

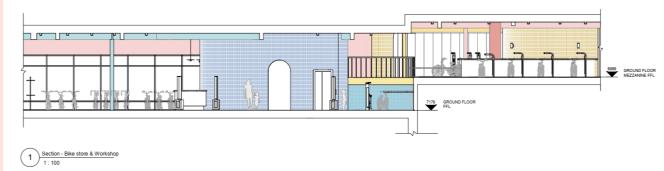
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Right: material palette for the bike store and workshop. All material were specified with sustainability in mind.

The FF&E specified

focused on reusing existing furniture

for this projects

as a priority and wherever possible new furniture (including

bespoke pieces) is

either remanufactured

or made from post consumer waste.

Left: sections through

the bike store, workshop and office

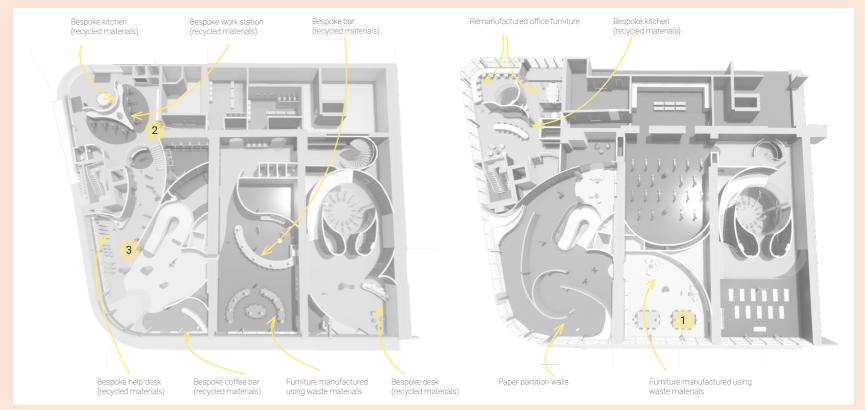
areas.





1 Shelves to be reworked to become a workshop storage/ tool box Existing display units to be reviewed for direct reuse as display units fro the store. NOTE: Following a full inventory of the existing FF&E there may be further reuse items to be added to this list.

Existing display units to be reworked as tables for the activity area





BIKE KITCHEN & WORKSHOP





 Ingilby Aquamide Anti Slip - Mighty Pip applied on stair (F) Alusid Silicastone Tints - Lytham blue

d steel handrail - RAL1018

Durat (recycled plastic) - Cream 2917 (291 07) (B) Powder coated steel handrail - RAL1018 (B)

Bauwerk lime paint - Sweet pea (

Quest (post consumer waste fabr Shrimp (B) Unreated oak chair / table legs (B) Stone cycling glazed waste base Cardamom (W) Quest (post consumer waste Sandstone (B) Tarkett Etrusco xf2 Bfl - Denim (F) Tarkett Etrusco xf2 Bfl - Candy (F) Tarkett Errusco xi2 Bir - Calidy (r) Tarkett Etrusco xi2 Bir - Honey (F) Durat (recycled plastic) - Pink 150 (18 00) (B)

Bauwerk lime paint - Banana (W)

- Ingilby Aquamide Anti Slip Mighty Pip

- Tarkett Etrusco xf2 Bfl Sky (F) Tarkett Etrusco xf2 Bfl - Candy (F)
- Quest (post consumer waste fabri: Sandstone (B)
- Stone cycling glazed was Juniper berry (W)
- 9. Bauwerk lime paint Banana (W)
- Bauwerk Ime paint Banana (W)
 Bauwerk Ime paint Sweet pea (W)
 Bauwerk Ime paint Lotus (W)
 Bauwerk Ime paint Pussy willow -

SOCIAL DESIGN

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STORE & DONATION DESK



Renders of the modelled space using Revit and Enscape, edited in Photoshop.

Visuals present a different outlook on sustainable design.



BIKE KITCHEN & WORKSHOP

CONSULTATION & BIKE FITTING

SECTION 2: Technical details



SECTION 2: PRECEDENT DETAIL STUDIES

TASK OVERVIEW

The precedent details study focusses on the evaluation of individual interior design details. The aim of this task was to explore and critically evaluate different interior design details highlighting different material transitions and transition types.

The evaluation focusses on the materiality

and its suitability for the application, the

have undergone, as well as the likely construction and assembly process.

The details are also reviewed from a

sustainability perspective, as well as a

reflection on how the detail fits in the

At the end of each precedent detail study, the information required to communicate the design is outlined, alongside a closing

commentary and the key takeaways that

could be used to inform the commercial

wider project scheme.

staircase design.

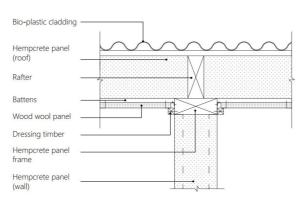
processes that the individual components

DETAIL 1.

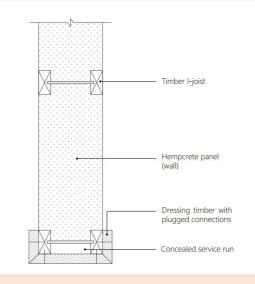
1 -

Detail focusing on modular hempcrete construction.





DETAIL 2.

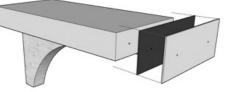




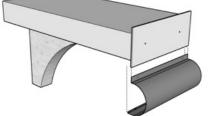
ASSEMBLY PROCESS

Assembly process for internal coping /cable tray.

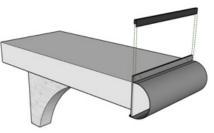
Precedent project: Maggie's Centre, Heatherwick Architects



1. Attach facia board to CLT slab.



2. Bent metal plate attached (could be rotated in place if services are present).



3. Connect bent cover plate.

SECTION 2: STAIRCASE DESIGN

CLIENT

MAUD & MABEL

OVERVIEW

This section presents the development of the detail design of the feature staircase proposed as part of the commercial design project module presented in section 1 of this portfolio.

The materiality adopted of the staircase follows the material palette for the wider scheme.

The following three themes were derived form this study and adopted for the design development of the stair case.

CURVATURE - Curvature of the extruded piece of clay

LAYERS - Layers and folds formed in clay

SCULPTURE - Subtractive technique to carve and form clay

Render of the feature staircase modelled in Revit.

Physical model of the staircase treads and

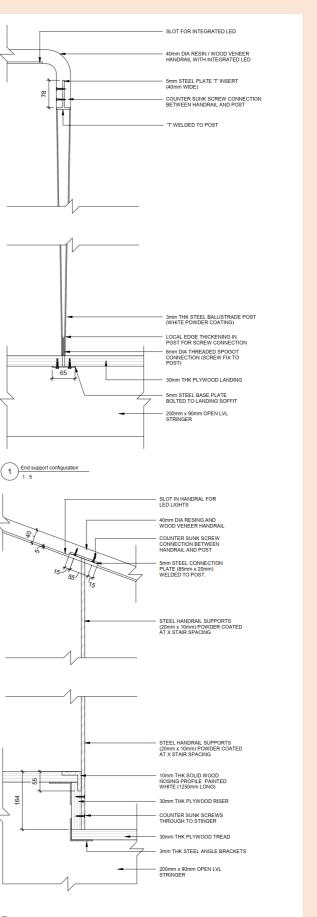
riders made from card

and oak veneer.





Details developed as part of the feature staircase design project following guidance provided in Building Regulations Approved Documents.



2 Intermediate support configuration 1:5

KRISTIN IVANOVA

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