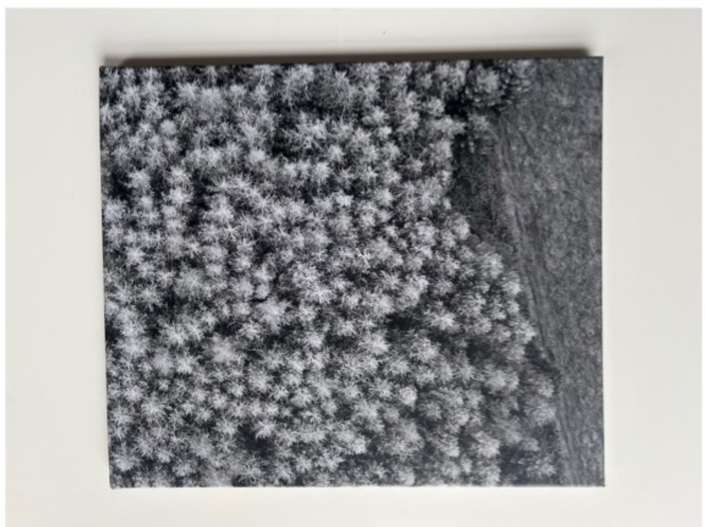
‘Fragmentation and Abandonment’ Photobook

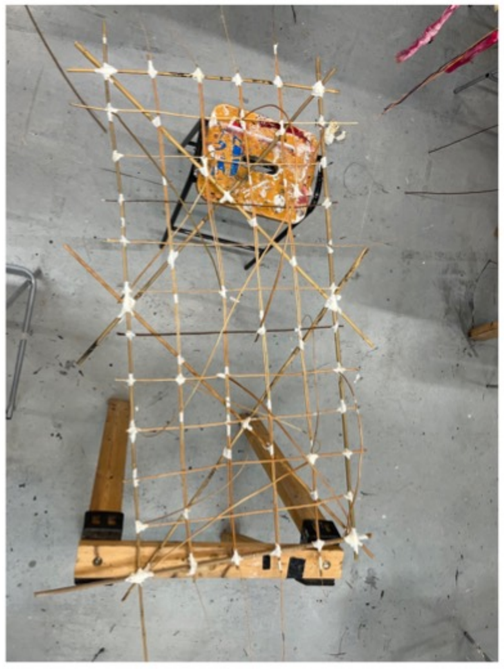
This photo project, culminating in the book below, began with research into the Human Interference Task Force, a scientific group planning for post-society management of nuclear waste — trying to convey its danger through physical objects. I photographed abandoned structures and machinery, assembling the images into a series that doesn’t have a direct narrative, but does an implied one.

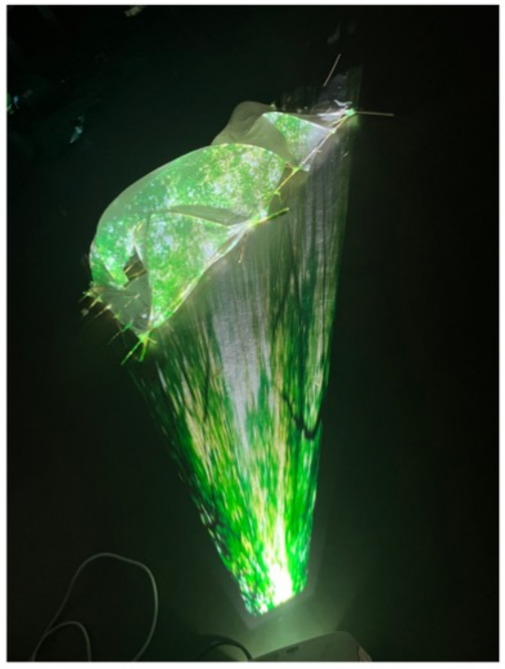


‘Sensations’: Exploring Artificial + Real Indoor Nature

This brief focused on immersive and interactive art. I wanted to create 3D work that mimicked nature, and explore the boundary between convincing and blatantly fake space, whilst appreciating the benefits the authentic one has, looking into projection art as well as the possibility of growing real plants on the objects I designed.

I studied work by Per Kristian Nygård, the ‘moss your city’ installation by Pushak, ‘Light Green Leaves with Light’ by Hyun Jean Lee, Terra! Grown Furniture by Studio Nucleo and the design of Zurich’s MFO-Park for the way they use nature and its impression to create immersive, often calming and beautiful spaces. Their images are on the next page, mine are to the right.

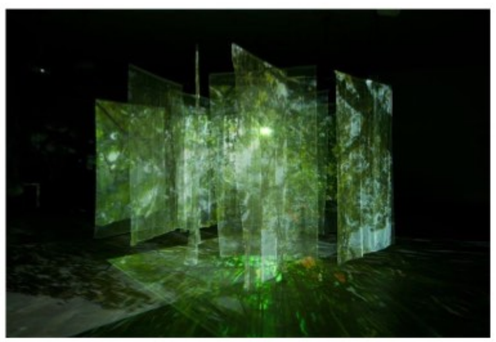




Forest Corridor — Design Sheet for ‘Sensations’

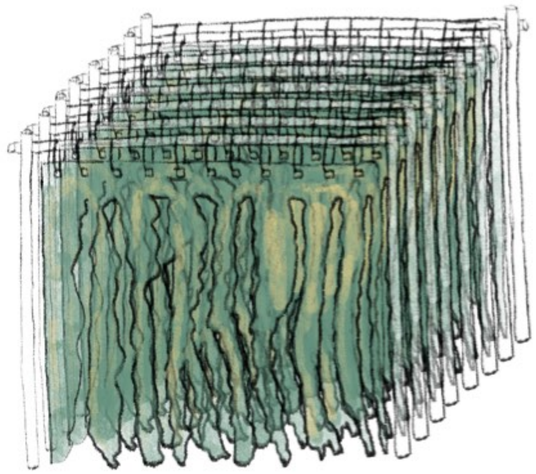
Artificial foliage with projections of natural images, and forest VOCs (Volatile Organic Chemicals) to create an immersive visual and olfactory environment.

References



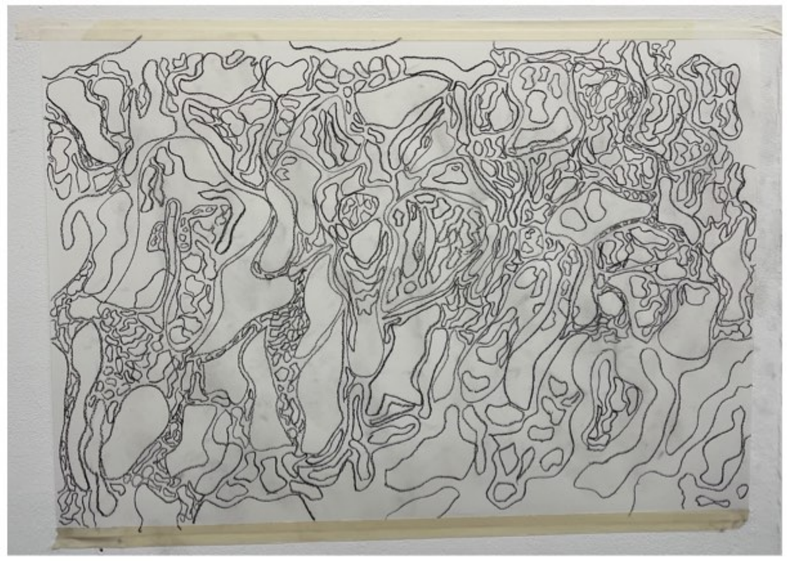
Previous Work

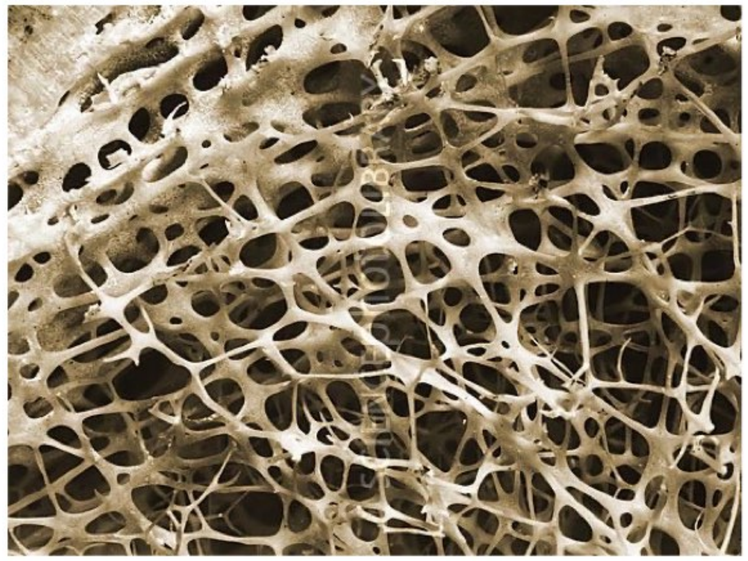
Proposal

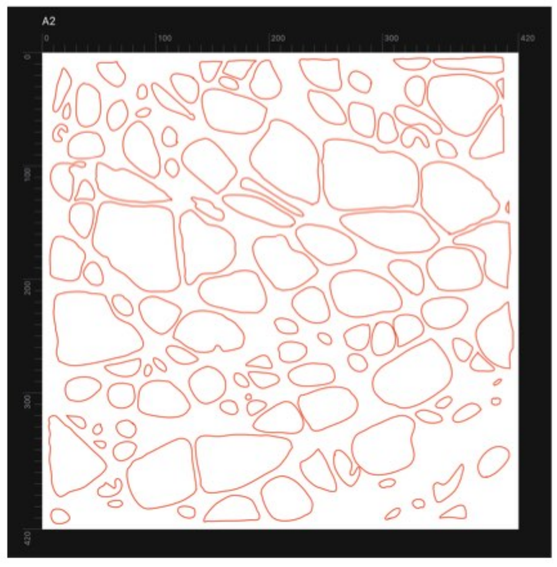


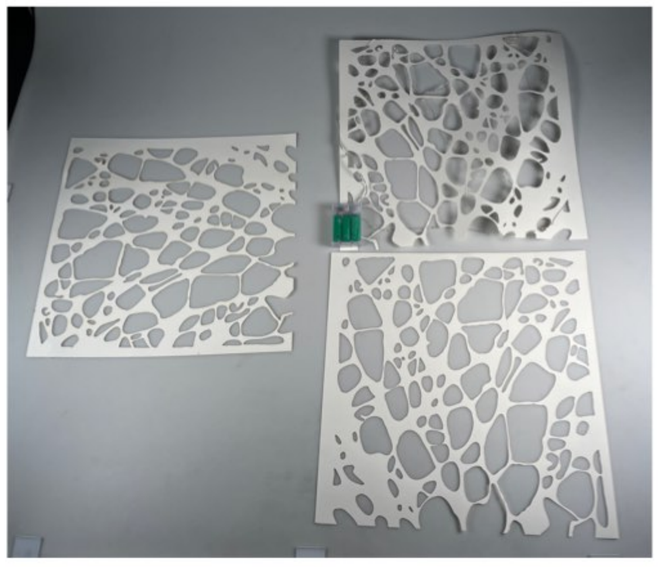
Biomimicry

This brief centrered around aesthetic, rather than functional, Biomimicry, using natural forms to inform our design process. I started by looking at the light diffusing and shading properties of sea anemones, and moved on to electron microscope images of human bone marrow. Nature-inspired or mimicking design has become key to my work.



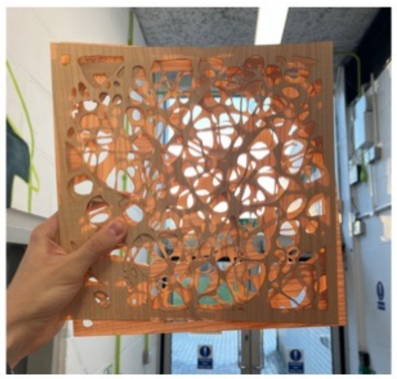


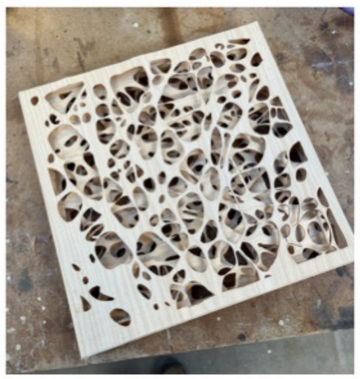


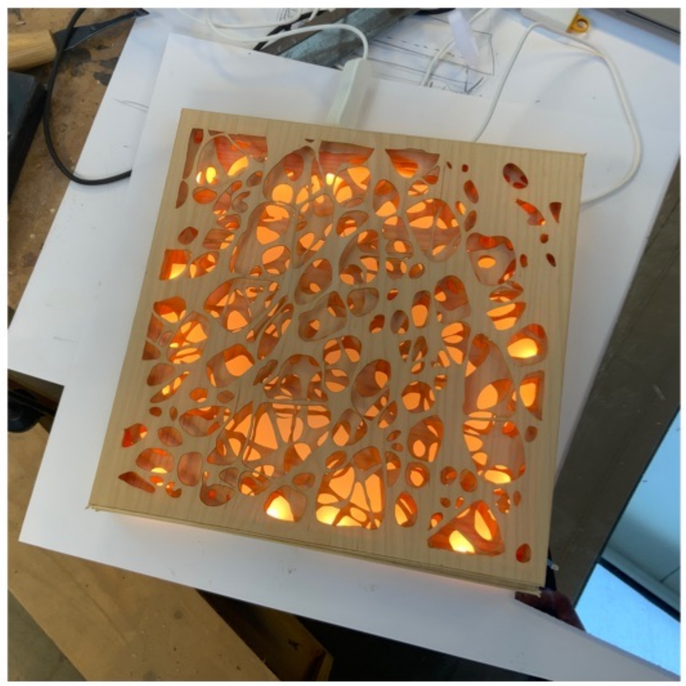


Biomimicry

My final product is a light fixture with several layers of the bone marrow influenced shades, with a diffused LED panel backlighting them.



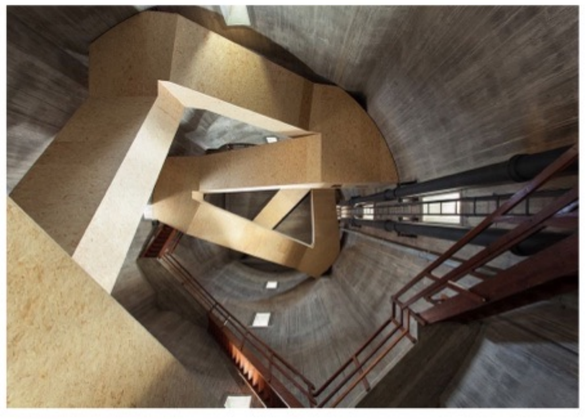




‘Rethink’ — Repurposing Disused Space — Research and Analysis

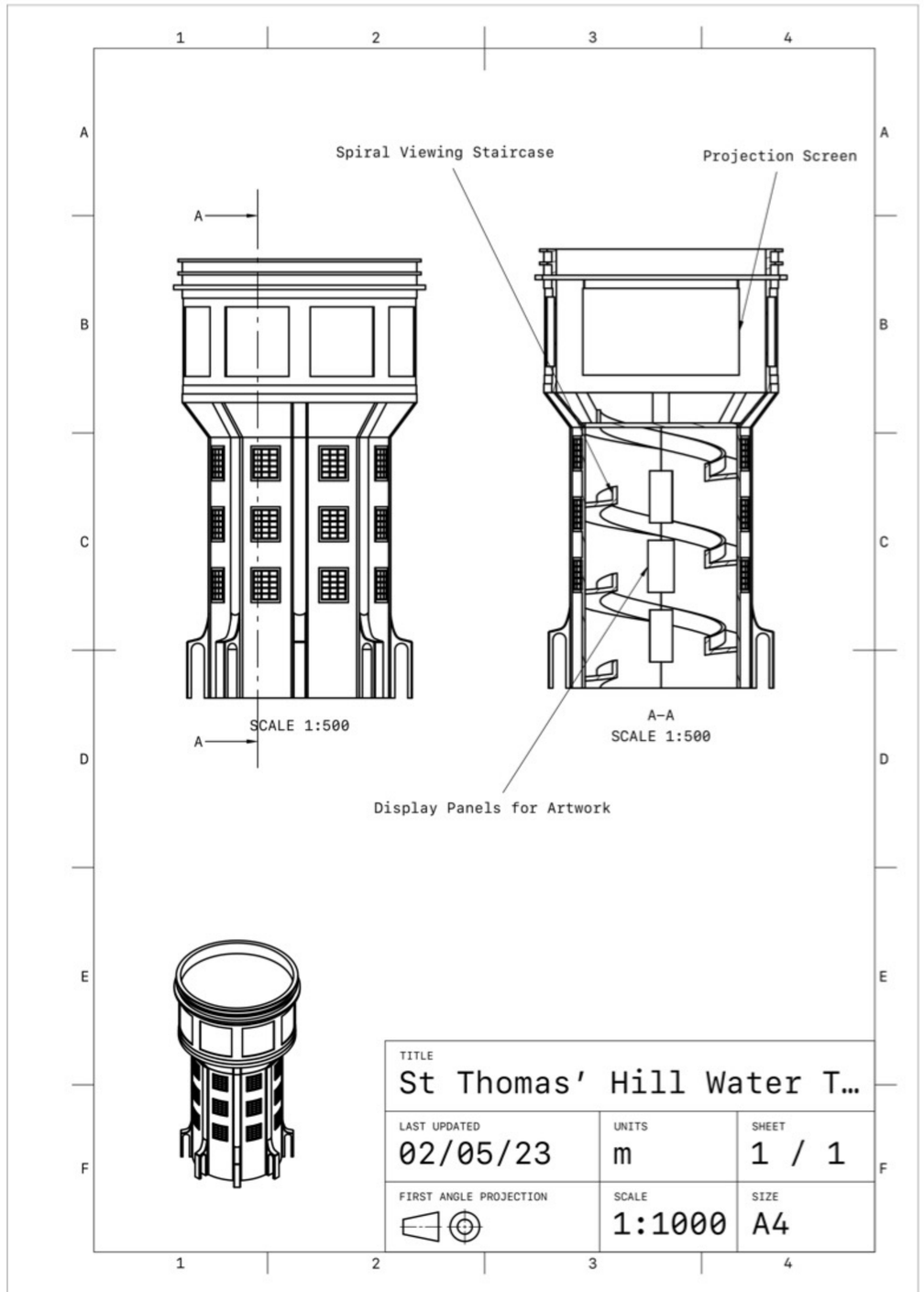
3D Mapping With UAV

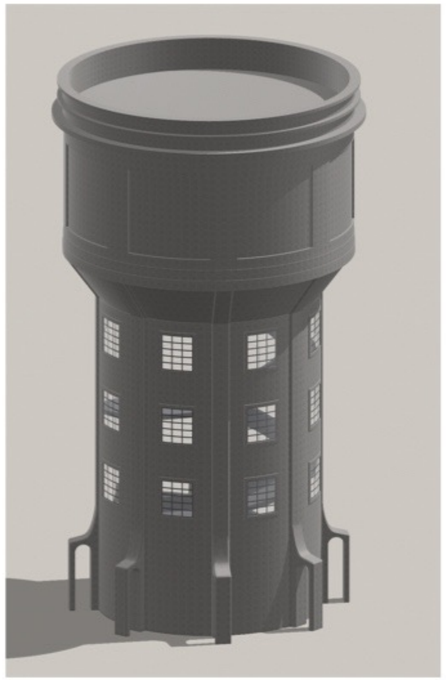
Design Inspiration

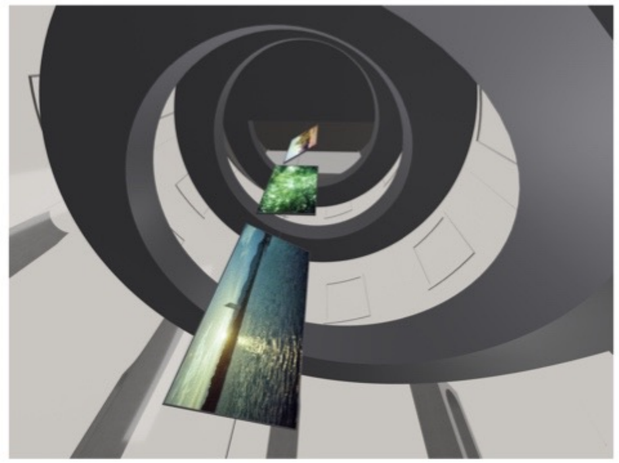


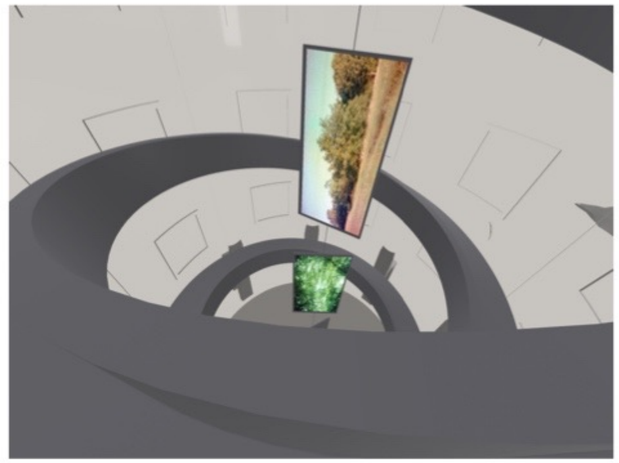
For this project, we were given the task of redesigning a disused or nonfunctional space, within the context of sustainable redevelopment and avoiding new construction. I worked with a water tower in Canterbury, redesigning the interior as a community-centred art space with a camera obscura. Amongst other works, I studied a nature watching tower by Johansen Skovsted Architects, considering the way it brings views in, and similar water tower redevelopments by Zecc - and Crepain Binst Architects, which inspired me with both their effective functional redevelopment and their respect for the previous form, considering elements like water tanks and staircases.

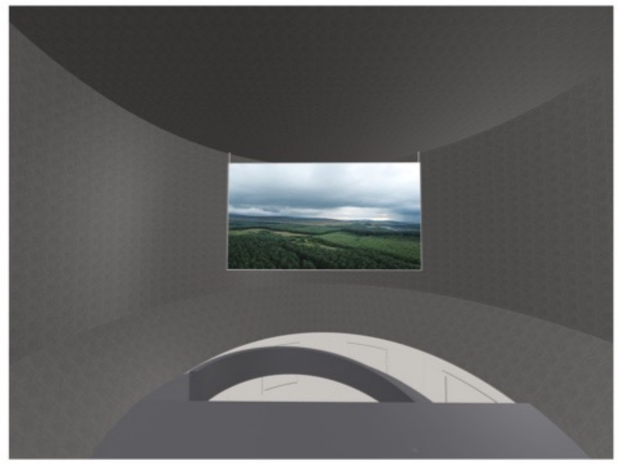
‘Rethink’ — Outcomes





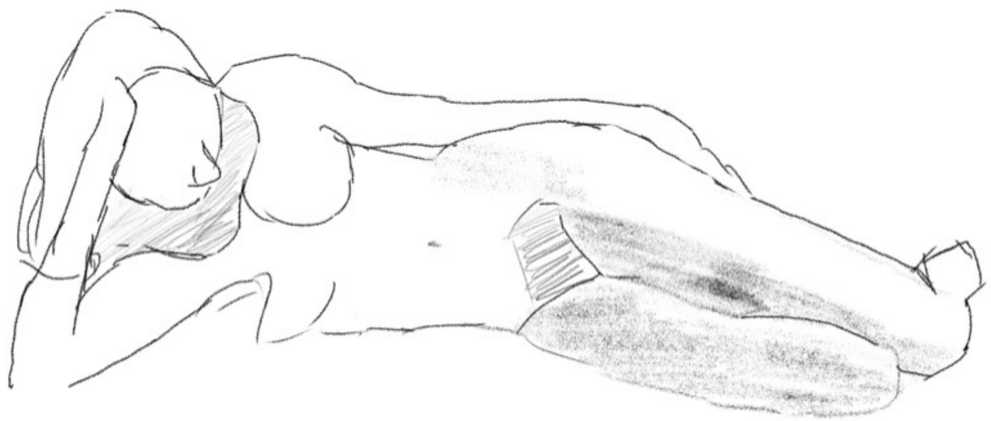






Life Drawings

I’ve had the opportunity to attend a biweekly life class where I’ve been aiming to improve my observational drawing. I’ve mixed digital and physical work methods to develop both. These images show some of my progress.



Developing a Pitch for a ‘Live’ Brief

This project centrered on working to a semi-realistic brief with a budget, fixed requirements and the need to consider certain factors like sustainability. I chose a brief asking for new studio spaces for UCA Canterbury. I was inspired by greenhouses and other passively heated structures to create my final design.

Sketchbook Pages

UCA 3D 5: ‘The Pitch’

Introduction

The idea behind this project, from our tutors, was to respond to a brief not with work and the assumption of a contract, but with our own pitch. The aim was to simulate competition and working to win a contract. This is the brief as given to us (there were 3, I chose the architectural one):

BRIEF

The School of Architecture at UCA Canterbury is in collaboration with DEZEEN and HEATHERWICK STUDIOS and are inviting innovative and sustainable proposals for designing and constructing further studio spaces within UCA Canterbury, utilising exterior areas, which are currently redundant.

Proposals must be fully sustainable and involve the use of eco friendly and recycled materials.

Designs must be forward thinking and cutting edge, reflecting the creativity of the art and design community.

Spaces can be separate units or connecting.

Any separate unit should house a minimum of 10 students.

We invite you to consider original and contemporary possibilities.

All redundant exterior spaces should be investigated and considered. The potential spaces can be independent structures, or an extension of an

1

Orange, green and yellow represent outdoor spaces that could be expanded into.

Orange spaces however, i considered, are used too frequently (the lawn as a social space; the welding area, until redevelopment, for welding) to be replaced.

The yellow space represents the current staff car park, which given Canterbury's accessible park and ride scheme, the nearby bus stop, and upcoming low emission zone I considered could be a good candidate for exmapsion.

The green space represents unused outdoor green space, specially coded as green space on site is limited and valuable. Any solutions around this space, given sustainability is an important factor in the brief and more generally, would have to accommodate the current semi-wild nature of the space.

Blue spaces represent roof space that I considered to be usable. The entire site is of steel beam construction (see fig.1 below) so I worked with the assumption that additional, light weight and well distributed structures could be added. I have not

3

Image credit: von Nellenburg (2004).

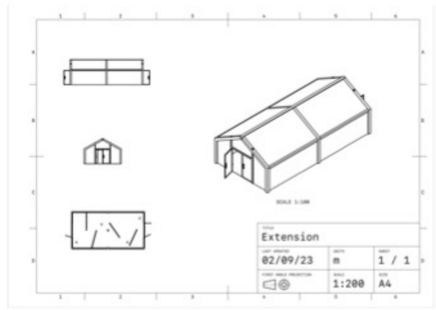
Greenhouses

Usually used for growing plants, the idea to increase interaction with nature on site drove me towards looking at the simple glass or clear plastic structures. Easy to build using either timber or lightweight steel or aluminium frames, combined with glass (more expensive) or clear plastic (sheet material is inexpensive, and insulates better), the large amount of light would again increase passive heating. Well lit spaces are also known to boost productivity amongst other psychological health benefits (Peek, 2023).

5

CAD Design

I worked in CAD to create a final product for my pitch. A timber frame provides structural strength, while large clear (or translucent, depending on materials) panels for natural light.



Isometric projections of the studio space.

16

Pitch — Final Design Renders