

# Jae Bin Lee

Spring 2024

Design + Art Portfolio

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## Syracuse University

College of Visual and Performing Arts [VPA]  
School of Design

B.F.A. in Environmental + Interior Design [ED]  
(Expected Graduation: May 2024)  
Minor in Architecture  
Minor in Information Technology, Design, and Startups [IDS]

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## How to View this Portfolio

I believe in storytelling, and that every project has its unique context of culture, scale, and the people. Often times, these contexts are what inspires me as a designer.

I invite you to delve into these works, hoping they offer insights into the diverse contexts and stories that inspire my designs.

Sincerely,

*Jae Bin Lee*

Academic Work

# Environmental+ Interior Design

Problem solving in a broad range of built environments using historical, cultural, contextual, psychological, and behavior impacts of design.

Project Shown:  
Firecracker Thai Kitchen  
Syracuse, New York



## Southside Communication Center (SSCC)

# Bringing the Sense of Belonging in the Southside of Syracuse, while Working with the Community.

### Studio

DES 451 - Community Projects Studio  
Syracuse University, Fall 2023

### Professors

Dr. Seyeon Lee  
Zoriana Dunham

### Collaborators

Hartley Peterson  
Roselynn Hodges  
Ruoyan Yu

### Assignment

Restoring the Southside of Syracuse, which has been a historically challenged area, with the community by renovating the Southside Communication Center.



Existing (Current) Condition of the Site.  
2331 S Salina St, Syracuse, New York 13202

# Responding to History Segregation and Reality of Syracuse

"The Interstate 81 viaduct in **Syracuse** effectively **destroyed** a **Black neighborhood** when it was built, and it has been **falling apart ever since.**"

Quote from New York Times, "Why It's So Hard to Tear Down a Crumbling Highway Nearly Everyone Hates", June 23, 2023 by Jim Zarroli

According to the latest data from the U.S. Census Bureau, **Syracuse is now ranked number one** for the **highest childhood poverty** in the country.

## The Client: Southside Communication Center

### Primary Programs

- Sankofa Reproductive Health
- Breedlove Readers Bookclub
- Art Story Events
- Victoria's Closet

### Secondary Programs

- The Stand
- Youth Programs
- Syracuse University Classes

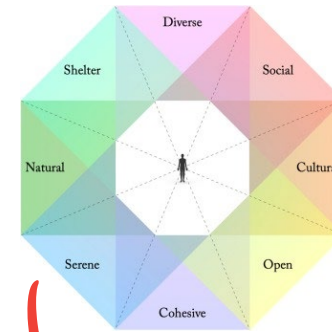


# Evidenced Based Design Perceived Sensory Dimensions

Perceived Sensory Dimension Diagram

Jonathan Stoltz, Patrik Grahn,

Perceived sensory dimensions: An evidence-based approach to greenspace aesthetics, Urban Forestry & Urban Greening, Volume 59, 2021



### Social

Implement elements in the community center that cater to various sensory experiences - visual, auditory, olfactory, tactile, and even taste. For instance, incorporating artwork, calming color schemes, ambient music, soothing scents, and textured surfaces can engage the senses of the visitors.

### Cultural

Utilize the principles of PSD to design interactive learning spaces. Visual elements like vibrant artwork, interactive educational displays, and ergonomic furniture can enhance the learning experience. Employing a variety of textures and materials can also engage the sense of touch and enrich the educational environment.

### Shelter

Utilize the PSD concept to design spaces within the center that provide a comfortable and non-intimidating environment for reproductive health programs. A safe haven, a sanctuary, in which one can either relax in solitude or spend time in smaller social settings.

### Serene

Consider incorporating soft lighting, calming colors, and natural textures to create a soothing atmosphere, which can help individuals feel at ease during sensitive discussions and consultations.

# Defining a Space Mood Board



Perspective Section Rendering produced by Jae Bin Lee.

## Design Response Goals and Concept

### Literacy

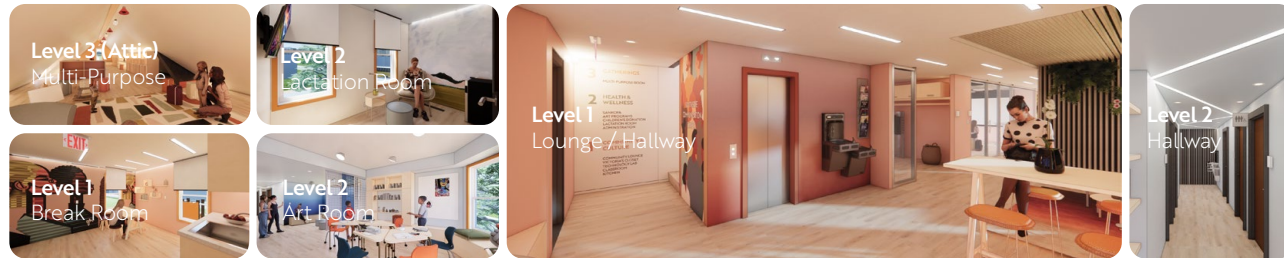
In order for the design concept to uplift the need for literacy in the space, the first floor proposes to incorporate multi purpose spaces to provide classrooms, meetings spaces, and presentation areas. In order to highlight the important programs that SSCC provides for women and young adults.

### Art

Art was an important area towards the design as it highlights the work of the young adults that participate in the art events. Collaborating with local Syracuse artists was an important area to explore as it connects back to the history of Syracuse.

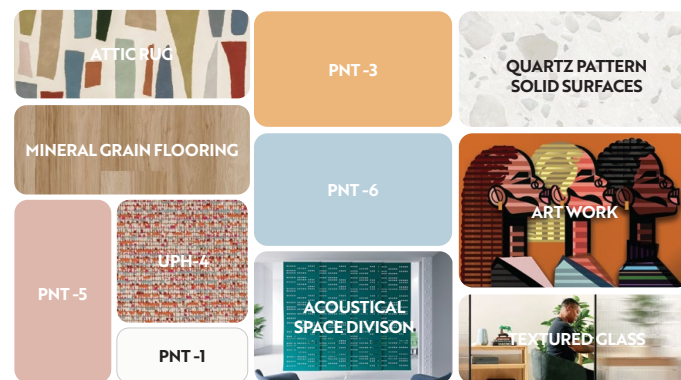
### Health and Wellness

The space provides a safe haven for pregnant individuals to gain knowledge about the stages of their pregnancy from other women and registered doula's. With private health consultation rooms, meeting spaces, and a lactation room, the space allows women a safe escape.



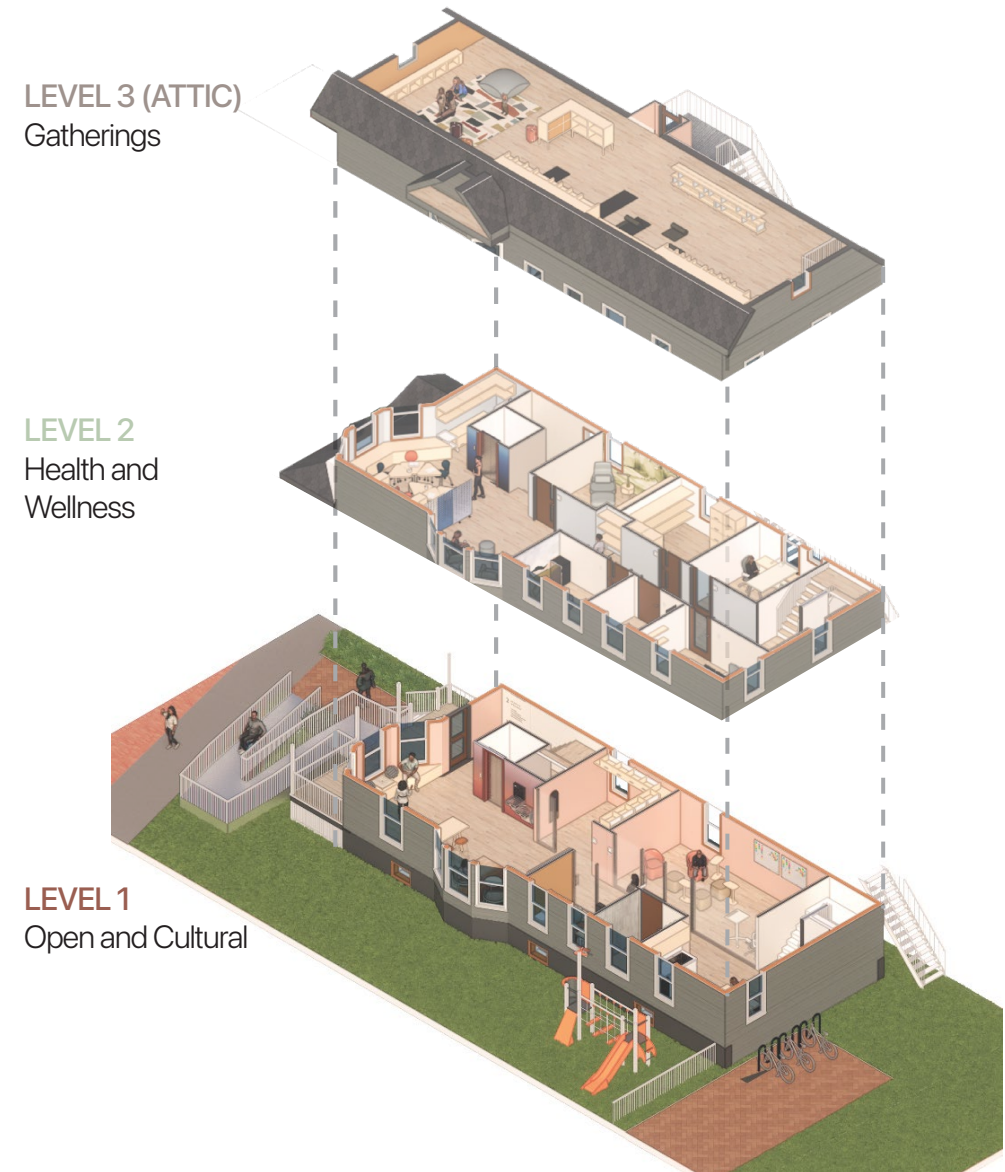
## Design Response Materials & Finishes

Materials and Finishes were an important aspect of this project. Not just aesthetics, but all the materials were carefully chosen based on their performance qualities and pricing points, as this is a community project.



Finish Palette developed by all members on the team.

## Perspective Exploded Axon



Perspective Exploded Axon produced by Jae Bin Lee and Ruoyan Yu.

## Firecracker Thai Kitchen

# A Historic Building Making its Comeback with Diversity.

### Studio

EDI 252 - Environmental Design II  
Syracuse University, Spring 2022

### Professors

Zoriana Dunham  
Dr. Jody Nyboer

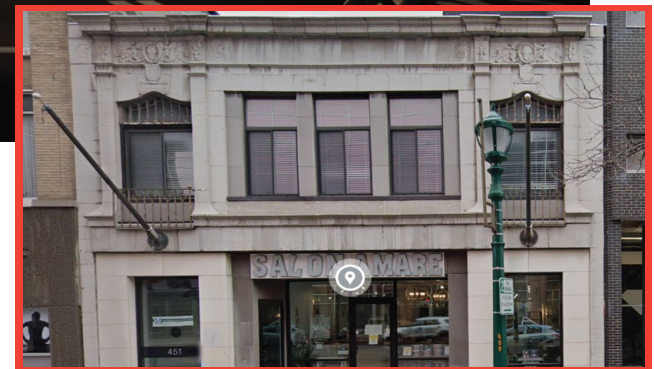
### Assignment

Restoring an abandoned historic building in downtown Syracuse with local ethnic restaurant. Reseraching and applying decolonizing design method in the final design.



### Exterior Rendering of the Newly Designed Building

While designing carefully around the historically preserved building elements such as columns and exterior details, the building now features a vibrant Thai restaurant, enriching and promoting diverse culture in downtown Syracuse area.



Existing (Current) Condition of the Site.  
Currently, the building is completely vacant.

## Design Ideation

### Essence of Design - "Family"

#### Family

[ fam-uh-lee, fam-lee ]

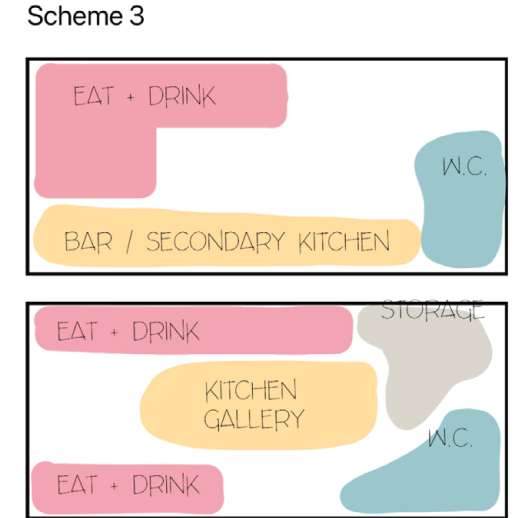
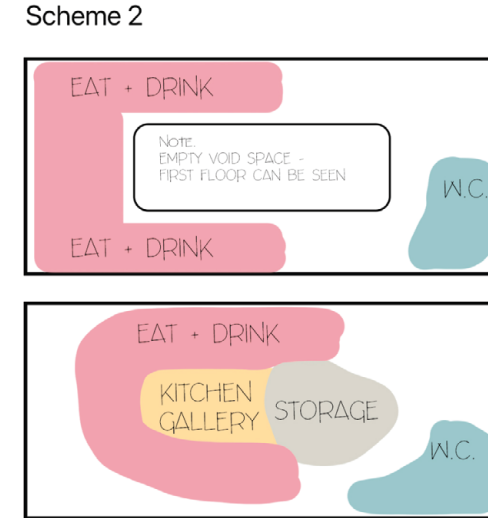
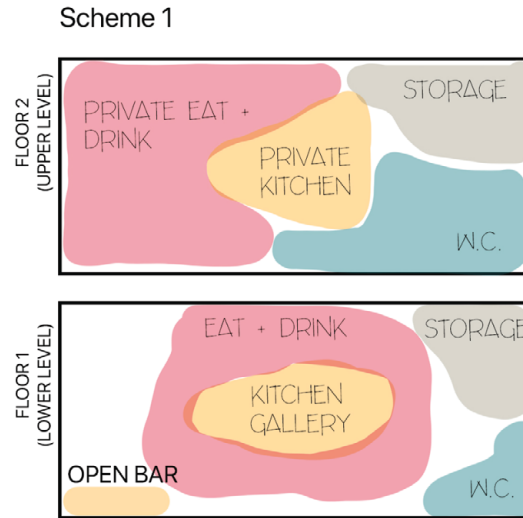
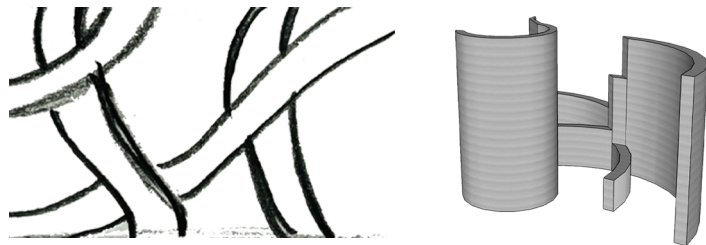
*Noun*

a basic social unit consisting of parents and their children, considered as a group, whether dwelling together or not:



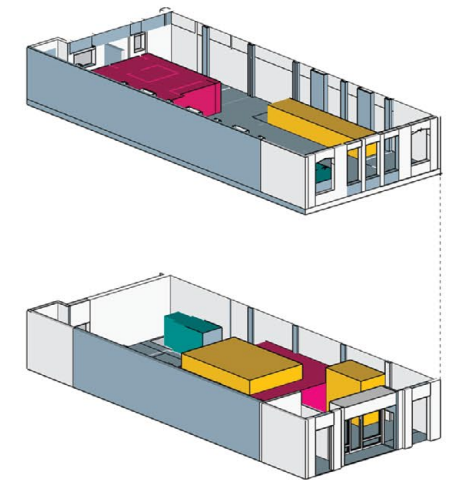
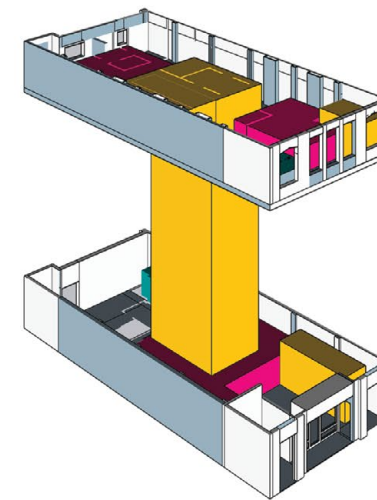
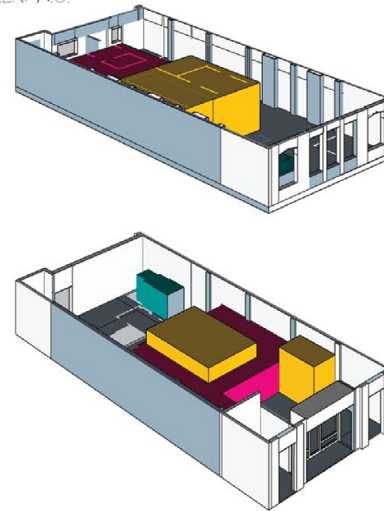
### Main Design Element "Weaving"

The essence of the word "family" is weaving. Curvilinear lines intersect with each other, and they create a sense of depth.



COLOR KEY LEGEND

YELLOW: KITCHEN / OPEN BAR  
MAGENTA: EAT + DRINK / DINING AREA  
GREEN: W.C.





Existing Exterior Front View (Front Facade)



Existing Exterior Side View (Front Facade)



Renovated Exterior Front View Rendering (Front Facade)



Renovated Exterior Side Rendering (Front Facade)

## Design Response [Exterior] Goals and Concept (Before & After the Renovation)

### Decolonizing while understanding the history.

The building was built in 1925, and it has historically operated commercial functions such as a restaurant, a bank, and most recently, a hair salon. It is unknown, but the building was divided into two different sections with different tenants.

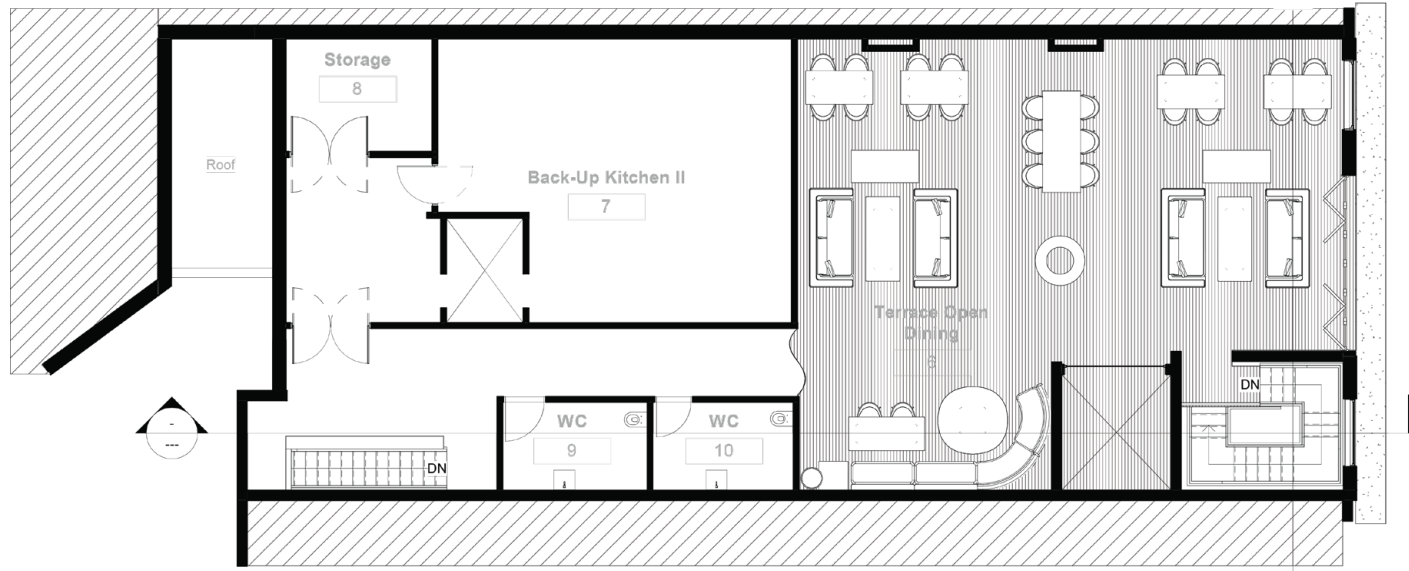
The building utilizes the architectural style that was a national trend after the World War I, which was the neoclassical architectural style. Some decorative elements of the architectural style can be seen on the exterior of the building. For example, on the top corners of the building, there are carved classical figures and classical crown molding, as well as an ancient greek column located on the exterior of the building. Although it was challenging to transform this eurocentric architectural design into a diverse thai cuisine venue, I took it as an opportunity to transform the old history into the new diverse and inclusive Syracuse area.

### Limited Access to the Building

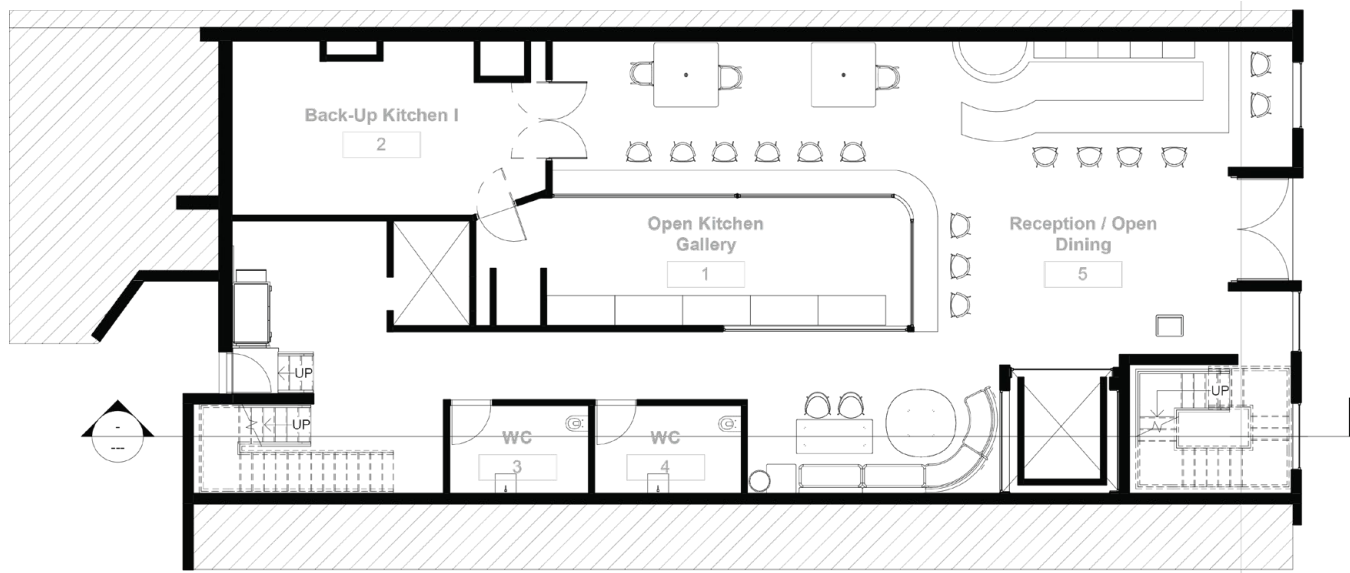
The site is located on W Fayette St, and before the renovation, there were numerous amount of ADA Violations found within the building, which limits access.

For example, the rear side of the building, which had ramps was not accessible as the panic doors were not functioning. This was a ADA Violation, as well as a fire code violation. Even with the doors functioning, the doors were too wide that the passageway was not wide enough for wheelchair users entering and exiting the building. Rear side of the building is occupied by a different building, and currently is being utilized as a parking lot. I have reimagined the rear side as a loading and staff parking. Front of the building provides accessible street parking, which can be seen in the renderings.





Proposed Level 2 Floor Plan (Terrace / Patio Seating)  
Drawings Not to Scale.



Proposed Level 1 Floor Plan (Bar / Open Kitchen Gallery)  
Drawings Not to Scale.

## Design Response [Interior]



## From Pattern to Space

# Exploring Biophilia in Patterns and Applying in an Interior Space.

### Studio

EDI 104 - Fundamentals of EDI  
Syracuse University, Spring 2021

### Professors

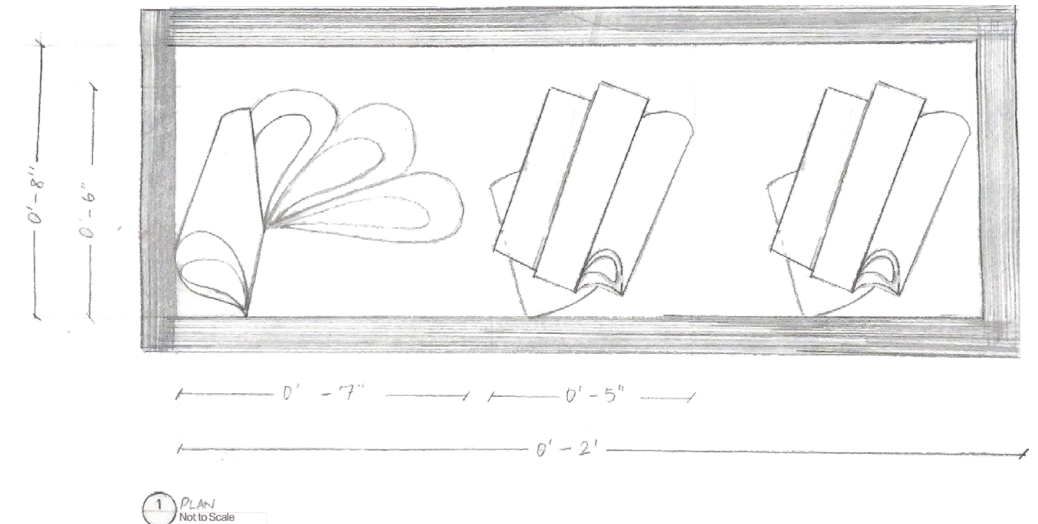
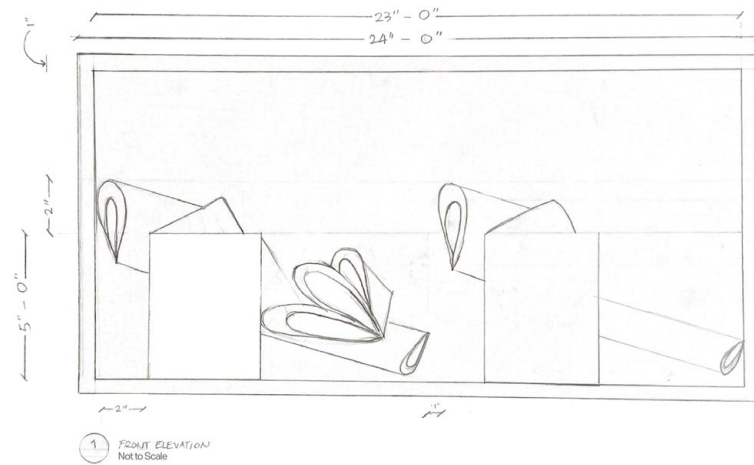
Zoriana Dunham  
Dennis Earle

### Assignment

Inspired by natural elements and ethnic textiles that can be found in New York State, creating patterns that can be developed into 3D systems. Later in this project, this 3D pattern was reimagined to be part of an interiors element.



Individual Model Attachment Inspired by Abstract Studies



# Design Process

## I. From Pattern to System (Exploring Biophilia)



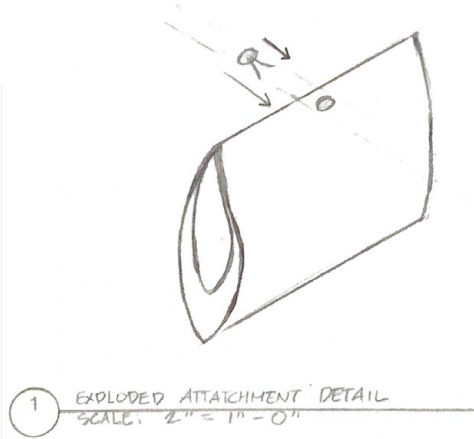
### Why Common Snowberry?

Common Snowberry can be found in many places is due to its leaves that provide protection from sunlight and strong rain. I was inspired by Common Snowberry's biological strategy that made it successful in the nature.

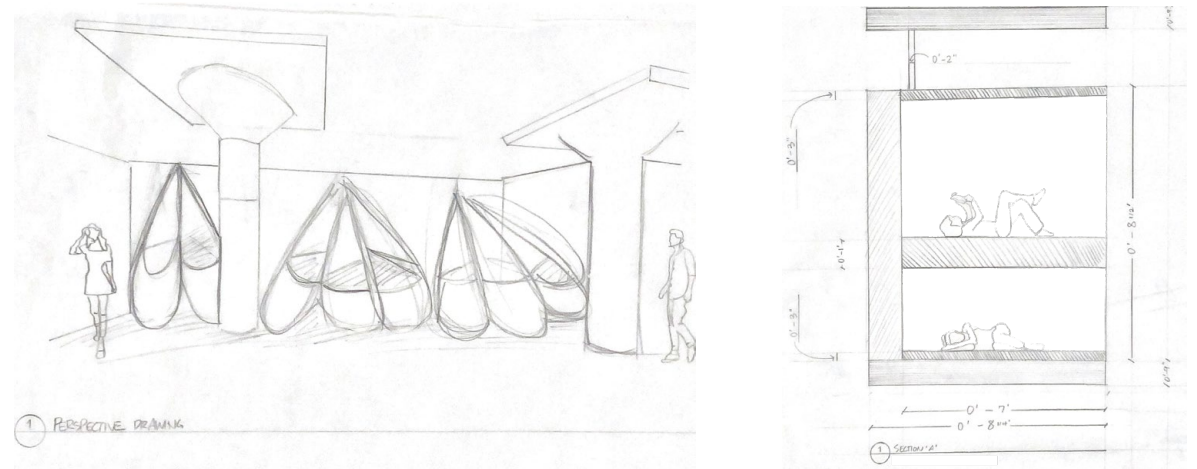


Abstract & Reductive Studies

## II. From Pattern to Space (Applying Biophilia)



Individual Model Attachment Inspired by Abstract Studies Drawing Not to Scale.



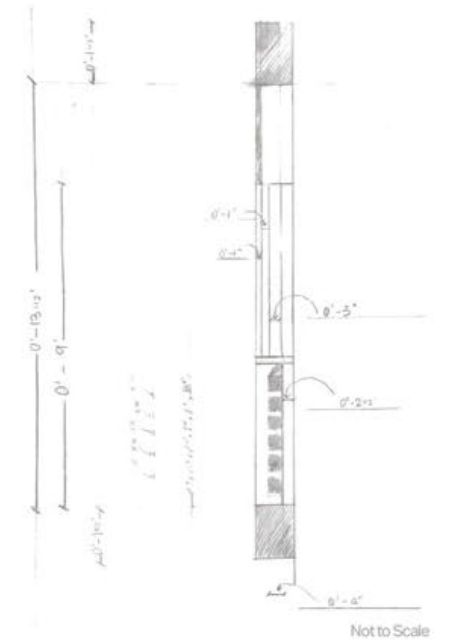
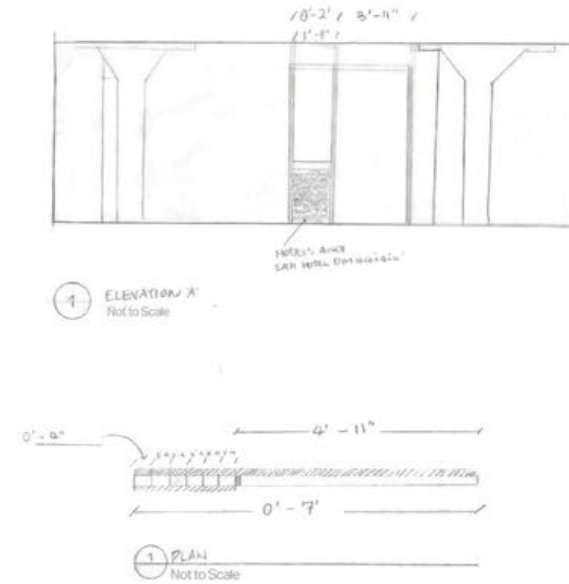
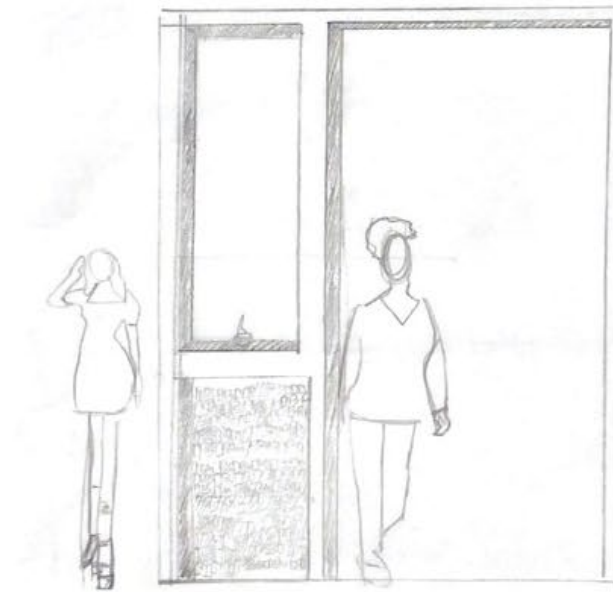
Indoor Shelter / Wellness Area inspired by Common Snowberry Drawings Not to Scale.

## Design Process

### II-B. From Pattern to Space (Applying Biophilia)

How did I Apply Biophilia?

Using the shape of leaves that protects snowberry from the harsh sunlights, I used the shapes as part of the window treatment. Between the exterior and the interior window, 3D shapes of the snowberry leaves were placed to provide soft sun protection.



## NEXT Workplace Design

# A Post Pandemic Work Space Design that Prioritizes Flexibility, Diversity, and Accessibility.

### Studio

EDI 351 - Environmental Design III  
Syracuse University, Fall 2022

### Professors

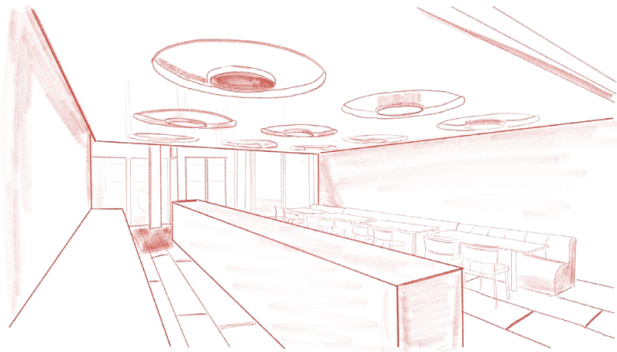
Zoriana Dunham  
Lauren Staniec

### Assignment

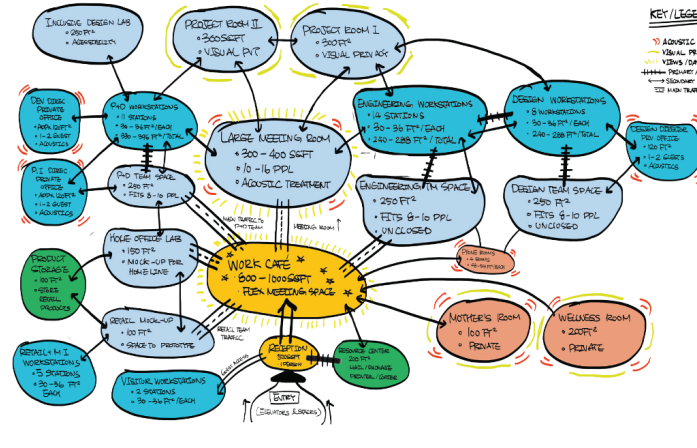
Understanding needs of different programs in a post-pandemic workplace and designing a new workspace for an innovative tech company.



# Design Process



Schematic Sketch of Lighting Ideas  
Custom Design Opportunity



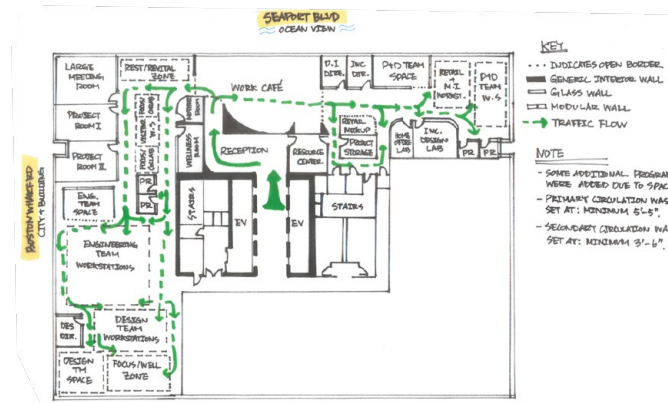
Bubble Diagram  
Understanding programming needs

	QUANTITY	SOFT NEEDS	SUPPORTS UP TO #PPL	PUBLIC ACCESS	DAYLIGHT VIEW	VISUAL PRIVACY	ACOUSTIC PRIVACY	NOTES
RECEPTION	1 STATION	500 FT <sup>2</sup>	ADDITIONAL 4-5 GUESTS	YES	YES	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
PHONE ROOM	4	48-54 FT <sup>2</sup>	1 PERSON	NO	NO	NO	NO	REQUIRE SOUND ABSORPTION AND SOUND TRANSMISSION TO ADJACENT SPACES
WORK CAFE	1	800-1000 FT <sup>2</sup>	10-15 PEOPLE	YES	YES	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
LARGE MEETING ROOM	1	300-400 FT <sup>2</sup>		YES	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
RETAIL MOCK-UP	1	100 FT <sup>2</sup>		NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
PRODUCT STORAGE	1	100 FT <sup>2</sup>		NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
PROJECT ROOMS	2	300 FT <sup>2</sup>		YES	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
INCLUSIVE DESIGN LAB	1	250 FT <sup>2</sup>		NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
HOME OFFICE LAB	1	150 FT <sup>2</sup>		NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
MOTHER'S ROOM	1	100 FT <sup>2</sup>	1 PERSON	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
WELLNESS ROOM	1	200 FT <sup>2</sup>	1 PERSON	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
RESOURCE CENTER	1	200 FT <sup>2</sup>		NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
DESIGN WORKSTATIONS	8 STATIONS	30-36 FT <sup>2</sup>	8 PEOPLE	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
ENGINEERING WORKSTATIONS	14 STATIONS	30-36 FT <sup>2</sup>	14 PEOPLE	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
PHD WORKSTATIONS	11 STATIONS	30-36 FT <sup>2</sup>	11 PEOPLE	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
RETAIL + M.I. WORKSTATIONS	5 STATIONS	30-36 FT <sup>2</sup>	5 PEOPLE	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
VISITOR WORKSTATIONS	2 STATIONS	30-36 FT <sup>2</sup>	2 PEOPLE	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
DESIGN TM DEDICATED SPACE	1	250 FT <sup>2</sup>	8-10 PEOPLE	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
ENG. TM DEDICATED SPACE	1	250 FT <sup>2</sup>	8-10 PEOPLE	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
PHD TM DEDICATED SPACE	1	250 FT <sup>2</sup>	8-10 PEOPLE	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
DEV. DIRECTOR PVT OFFICE	1	120 FT <sup>2</sup>	ADDITIONAL 1-2 GUESTS	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
DESIGN DIRECTOR PVT OFFICE	1	120 FT <sup>2</sup>	ADDITIONAL 1-2 GUESTS	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES
P.I. DIRECTOR PVT OFFICE	1	120 FT <sup>2</sup>	ADDITIONAL 1-2 GUESTS	NO	NO	NO	NO	REQUIRE HIGH CEILING AND SOUND ABSORPTION FOR LOW NOISE AND SOUND TRANSMISSION TO ADJACENT SPACES

Adjacency Diagram  
Understanding adjacency and needs of the space



Applied Version of the Lighting Design  
Custom Design Opportunity



Egress Study Plan  
Analyzing human movement in a space (Drawing Not to Scale.)

### WORKSPACE DESIGN THAT VALUES ONE'S WELLNESS AND COLLABORATIVE IDEAS.



Rendered Floor Plan  
Visualizing layout options that is easy to read for everyone

Design Response Perspective Interior Elevation



Project Room I

Project Room II

Engineering Team Dedicated Space

Engineering Team Workstations

Design Team Workstations

Design Team Dedicated Space



A Key to Designing a Successful Workspace is to Balance Energy Throughtout the Space.



P+D Workstations

Retail Workstations

P+D Dedicated Space

P.I Director Pvt. Office

Dev. Director Pvt. Office

Work Cafe

Wellness Zone

Large Meeting Room

Academic Work

# Urban Design

Problem solving urban environment through intensive research and site visits and providing diverse and inclusive solutions.

Project Shown:

Barbican Wayfinding Refresh Project  
London, United Kingdom





## Barbican Wayfinding Refresh Project

# Designing New Wayfinding System that Benefits Everyone for the Barbican.

### Studio

DES 485 - Multidisciplinary Design Studio  
Syracuse University London, Spring 2023

### Professor

Dr. Helen Kearney

### Collaborators

Ellie Graham | Communication Design  
Emma Levine | Industrial Design  
Kate Harrington | Communication Design

### Role in the Team

I was appointed as *Team Lead*. Wayfinding Idea originated from me, and supported graphics were made with the help of team members.



Photoshopped image produced by Jae Bin Lee and Ellie Graham.

# Identifying the Problem: Unfriendly UI/UX

- Notoriously known for the complicated layout with its elevated walkway.
- Resident Association does not want Barbican to be vibrant and center of arts, as they consider it the living space despite the purpose of the complex.



Diagram produced by Jae Bin Lee.

# Design Inspiration: Hiking Trail



## Looking for Barbican Centre?

Follow our **signature orange**. →

## Looking for Conservatory?

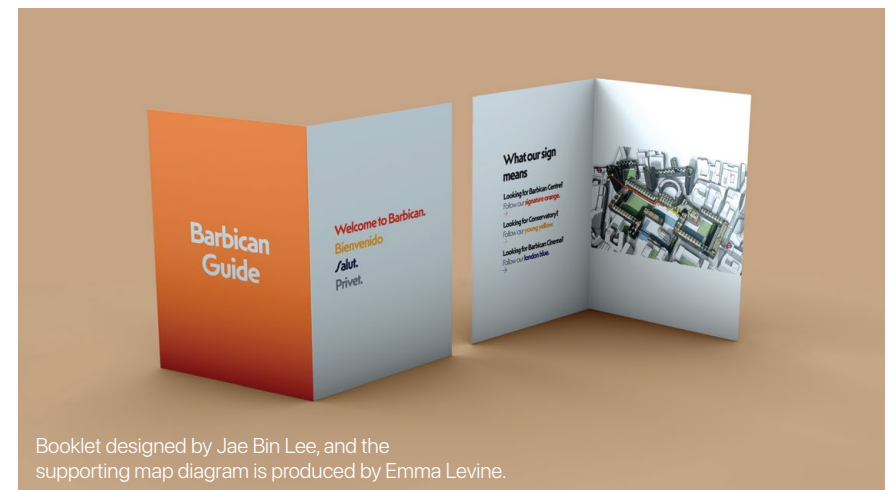
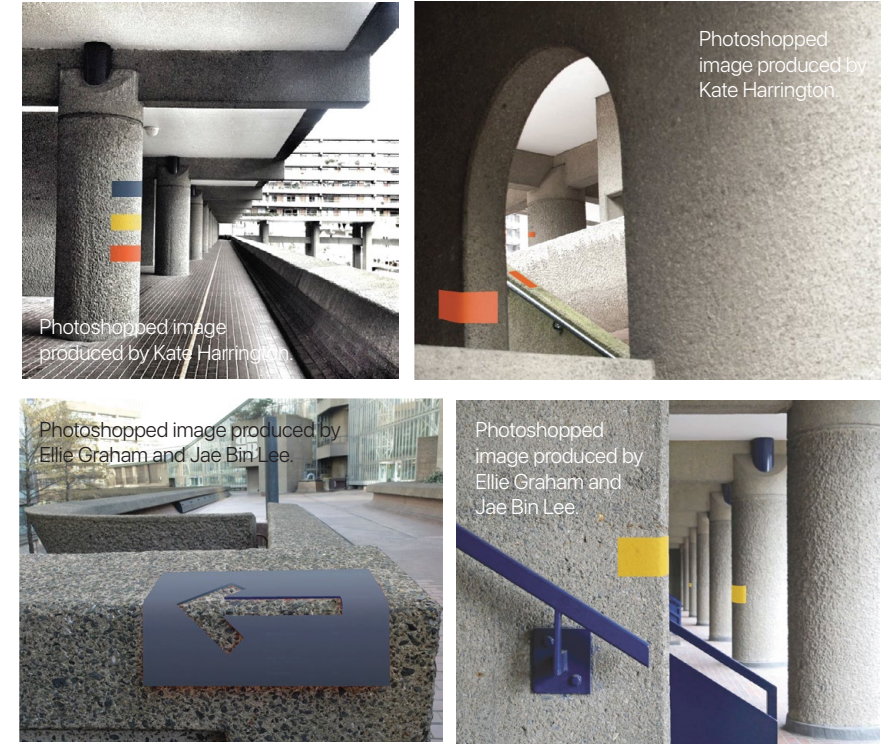
Follow our **young yellow**. →

## Looking for Barbican Cinema?

Follow our **london blue**. →

Diagram produced by Jae Bin Lee.

# Design Solutions



Booklet designed by Jae Bin Lee, and the supporting map diagram is produced by Emma Levine.

## Academic Work

# Ceramics

Expressing playful and joyful energy with the unique texture and design method of clay.

### Studio

ARI 300 - Ceramic Workshop  
Syracuse University, Summer 2021

### Professor

Margie Hughto

### Collection Shown:

Collection Naturelle, Collection Des Larmes and  
Collection Amusant

Collection.

## Naturelle

Collection Naturelle is inspired by organic and natural lines, focusing on imperfection of things that are natural. Peaceful and serene energy is portrayed in this collection.

Collection.

## Des Larmes

While Collection Naturelle focuses on naturalness and organic forms, Collection Des Larmes focuses more on specific water and teardrop related shapes and lines.

Collection.

## Amusant

Collection Amusant is inspired by young kids playing in the playground. It includes work that is full of vibrant and bright colors.

Collection.

## Naturelle



### Un Vase.

This vase portrays organic lines, yet gives sharp and edgy feelings. The vase immediately changes the atmosphere of the space, while being modern and natural.



### Un Bol.

This bowl is all about natural and organic lines. It shows imperfection, as nothing in nature is perfect.

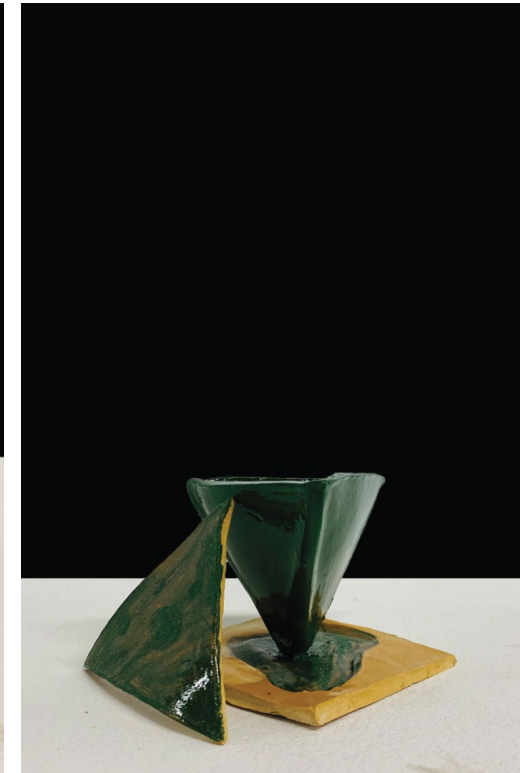
Collection.

## Des Larmes



### Un Mini Bol.

A mini bowl inspired by teardrop and waterdrop shapes that is peaceful.



### Un Bol Géométrique.

A geometrical bowl that includes a triangular lid that semi-covers the bowl.

Collection.

## Amusant



### Une Mini Maison

A house shaped sculpture that is glazed with fun and vibrant colors. This house represents children's fun energy.

Professional Work at:

# CannonDesign

Creative problem solving design with real life clients and constraints while working at a large scale architecture firm.

Project Shown:

Mobility Hub, Buffalo, New York, United States of America

Collaborators:

Yang Tang | Architectural Intern



## Mobility Hub | Buffalo, New York

# Designing a New Mobility Hub in Buffalo, New York for the Community.

### Project

Mobility Hub Design Competition, July 2023

### Collaborators

Yang Tang | Architectural Intern

### Role in the Team

As an Interior Design Intern, I came up with space planning ideas with Yang, and came up with various design ideas for the new mobility hub. Most space planning was done by me, and Yang helped with visual renderings.



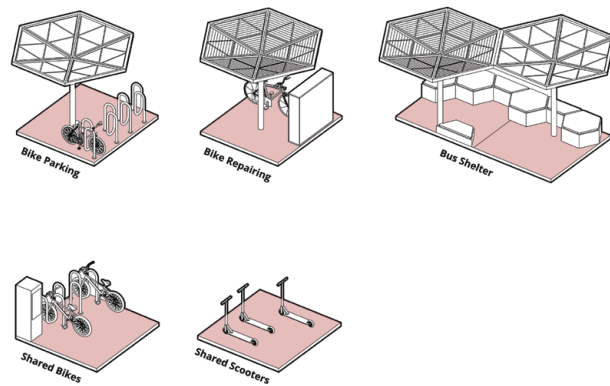
Renderings produced by Yang Tang.  
Rendering editing and photoshops by Jae Bin Lee.

## Design Strategy: Kit of Parts

The "kit of parts" design strategy is a flexible and modular approach used in architecture and urban planning to create cohesive, adaptable, and efficient spaces. In the context of designing a mobility hub in Buffalo, New York, the "kit of parts" approach involves breaking down the project into distinct components or elements that can be mixed and matched to suit specific needs, local context, and future growth. This strategy enables the mobility hub to evolve and expand over time while maintaining a consistent design language and functionality.

## Mobility Parts

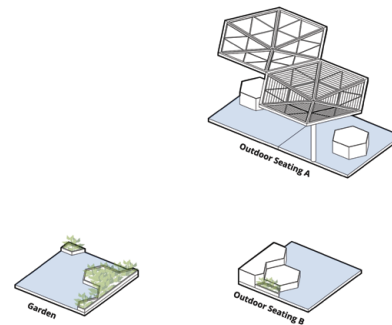
Mobility Modules respond to current and future mobility demands. They include shared services and units that promote active travel and electric transport, facilitating interchange.



3D Model by Yang Tang.  
Visualization and annotation by Jae Bin Lee.

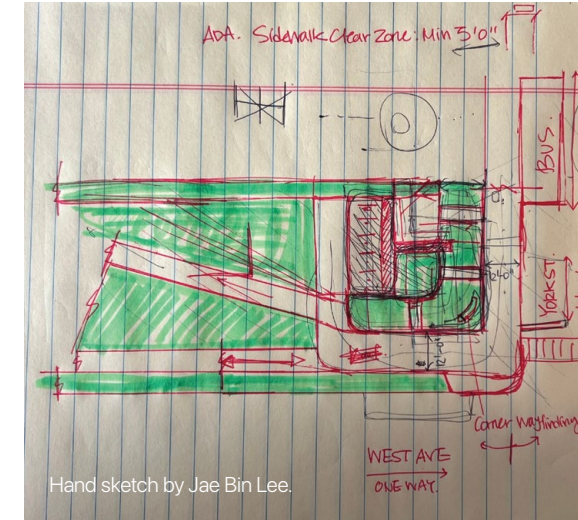
## Environmental + Community Parts

Community Components react to the neighbourhood's needs supporting the mobility modules and creating a sense of place in the hub. These are community influenced projects that can seamlessly integrate with the Future Mobility Hubs. Environmental Components are interventions that allow the Future Mobility Hubs to integrate with its surrounding environment to create healthy spaces.



3D Model by Yang Tang.  
Visualization and annotation by Jae Bin Lee.

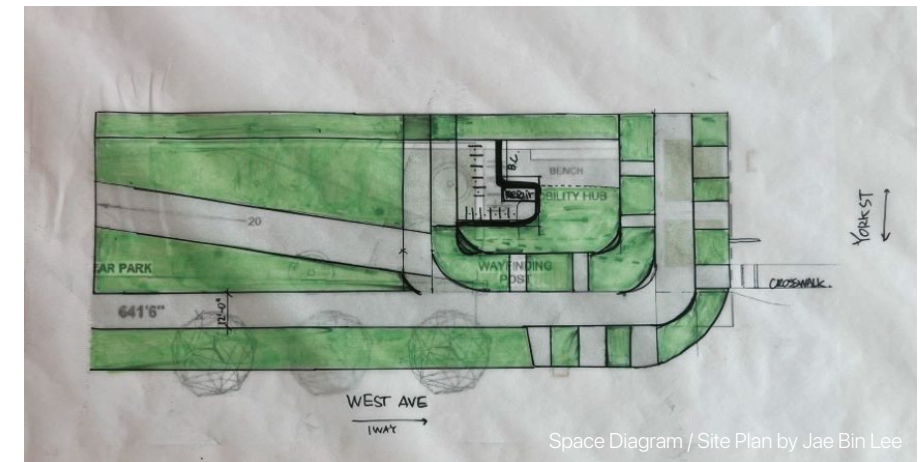
## Design Process



Hand sketch by Jae Bin Lee.

### Initial Rough Sketch of the Site

- ADA Information
- Bus Information
- Park Design Ideation



Space Diagram / Site Plan by Jae Bin Lee

### Second Draft of the Site Plan

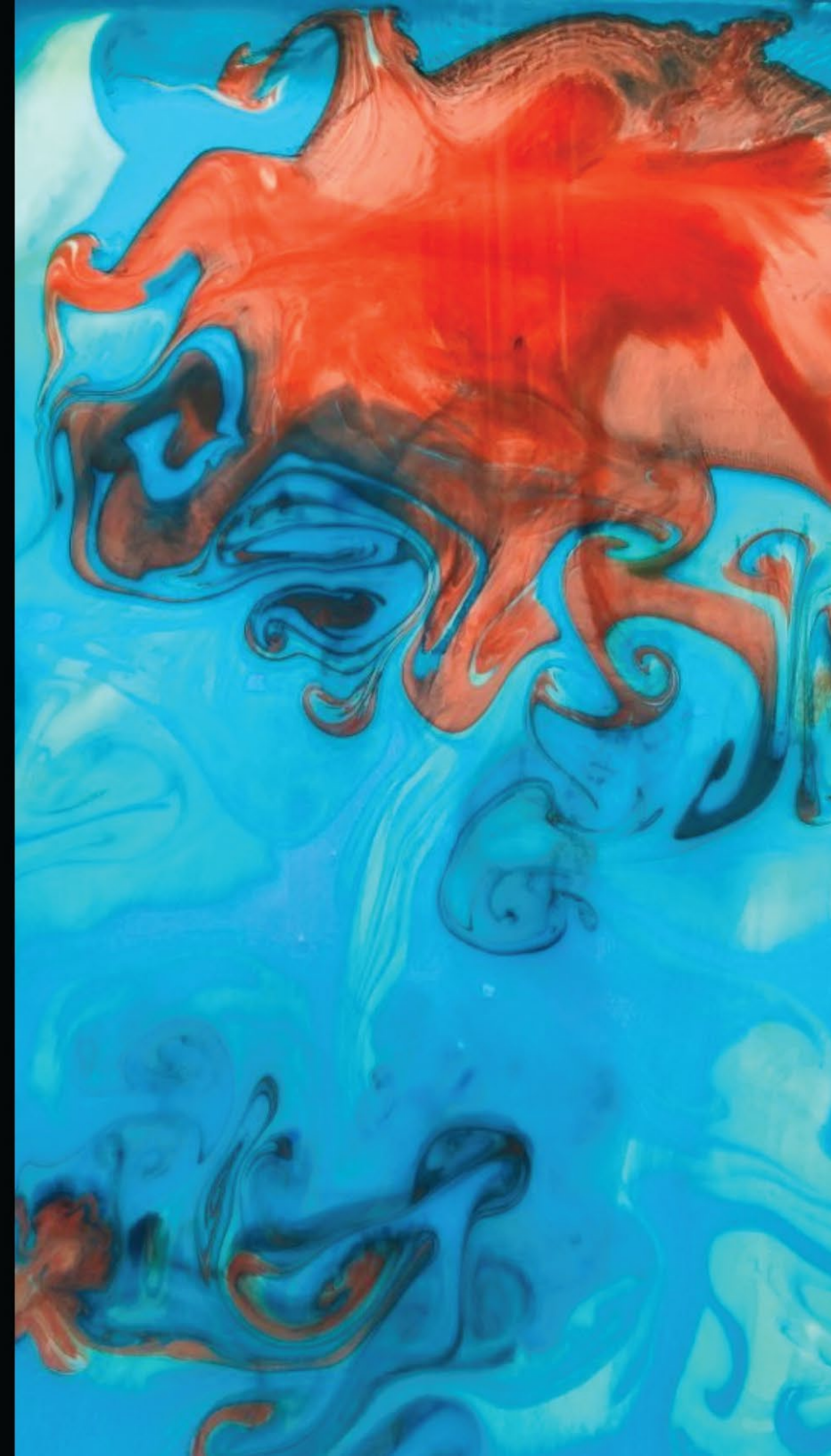
- Programming Information
- To-Scale Design
- Initial Sidewalk Design

Personal Work

# Artwork

Expressing freely with what matters to me the most.

Work Shown:  
Comfortably Dazed





## Art Work



### Power Struggle

This work is a painted Jenga piece with 51 American Politicians portrait on it, symbolizing and it explains about the power struggle within the American government and how the balance in the government is essential. This piece was made after the Government shutdown in January, 2019.



### Maria

Watercolor Portrait.



### Still Life from Blinds

Printmaking, Acrylic.



### Abandoned House

Charcoal

## Photography

