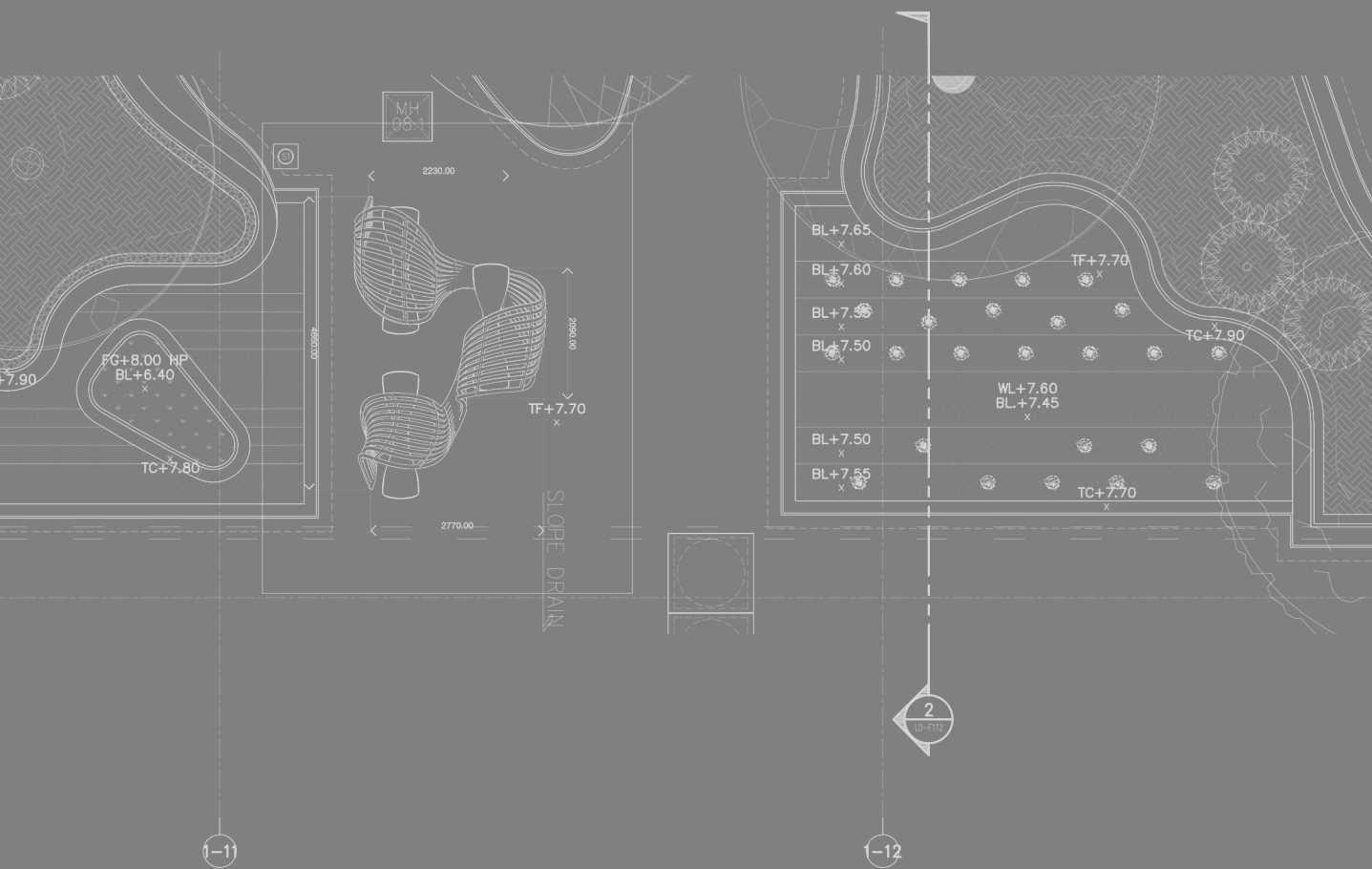
Architecture *portfolio*

Nattapob Wilawanwajee

Selected-work *2022-2024*



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Email : Nattapob.cm@gmail.com

Nattapob Wilawanwajee

I'm an architecture student driven by a passion for exploration and innovation. To me, design is a journey—one that constantly challenges boundaries, uncovers new possibilities, and transforms ideas into meaningful spaces. I enjoy experimenting with form, materiality, and the interplay of light and structure to create impactful designs. I see every project as an opportunity to explore fresh ideas and tackle unique challenges.

PROFILE

Nattapob Wilawanwajee (PUN)

Birth : May 16, 2002

Phrom Phong 288, Prachankadee Soi, Khlong Tan Nuea Subdistrict, Watthana District, Bangkok 10110, Thailand.

CONTACT

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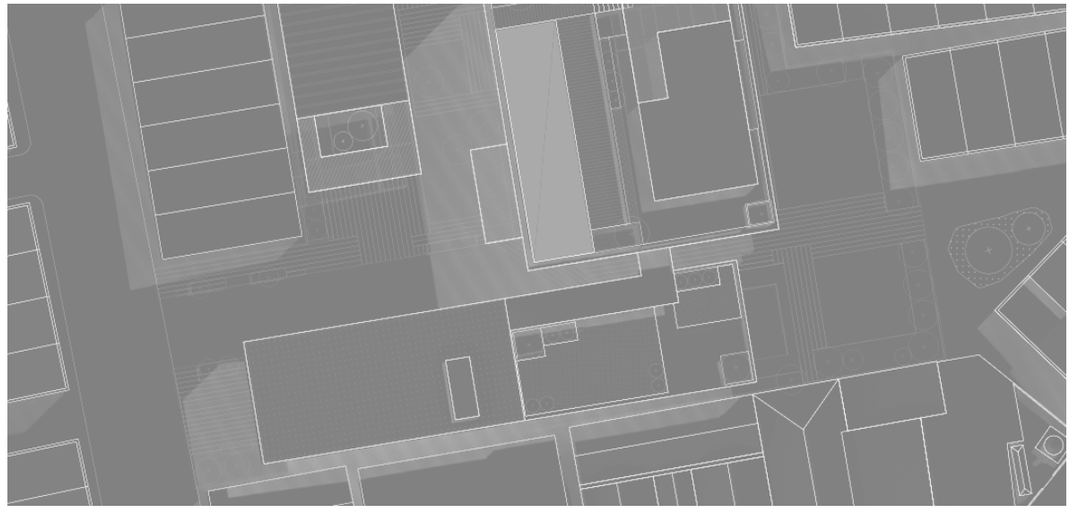
EDUCATION

2009-2020
Prince Royal College school (PRC)

2021-2024
King Monkut's University of Technology Thonburi-Bangkok, Thailand (SOA+D)
"Architecture International Program"

LANGUAGE

Thai(Native)- English(Intermediate)



SKILLS

- **Graphic skill**

Adobe Photoshop (PS)	*Intermediate*
Adobe illustrator (AI)	*Intermediate*
Adobe Indesign (ID)	*Intermediate*

- **Video cutting skill**

Final Cut Pro	*Beginner*

- **3D Model Skill**

Rhino	*Proficienct*
Grasshopper	*Beginner*
Sketch up	*Intermediate*
Revit	*Beginner*

- **Rendering skill**

Twinmotion	*Proficienct*
V-Ray	*Beginner*
Lumion	*Intermediate*

- **Microsoft Office skill**

Microsoft Word	*Intermediate*
Microsoft Powerpoint	*Intermediate*

- **Analong skill**

a. Hand drawing
b. Model making
c. Delination
d. Photograph
e. Prop setting
f. percussionist

WORK & EXPERIENCE

- **Competition**

2022 Urban Furniture Competition "Seatscape & Beyond." (One bangkok)
10 Finalist, to installed at One Bangkok.

2023 House design for the Inspirational Flood Resilience Competition.
Winner Award

2025 Designing Resilience Global 2025: International Competition
Winner Award

- **Internship**

2023 PWORK Studio
Director asistant

2024 Studio Igor Pantic
Architect position

2025 Allzone Limited
Architect position

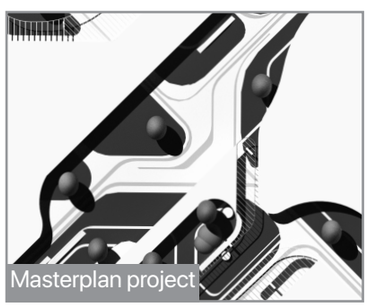
- **Workshop**

2022 Think studio workshop "Seatscape & Beyond."
Workshop Participants

CONTENT

Architectural works

GREEN CONNECT



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STILT-LIVING

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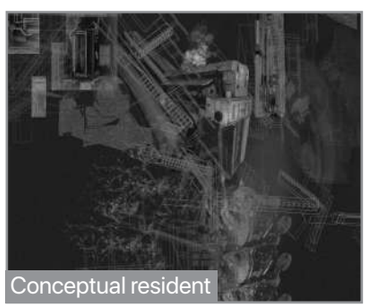
DEVOID CONSENT



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TALATPHUL-COURT

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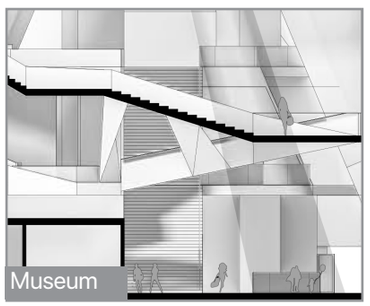
HOPE - MEUSEAM



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SEE-KLONG

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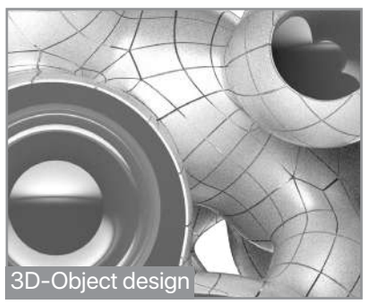
COMPUTATIONAL DESIGN



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BAMBOO SPIRAL

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ROOTED CURRENTS

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GREEN CONNECT
project: Campus life++

01

Completion
2023

Location
KMUTT
Bang Khun Thian

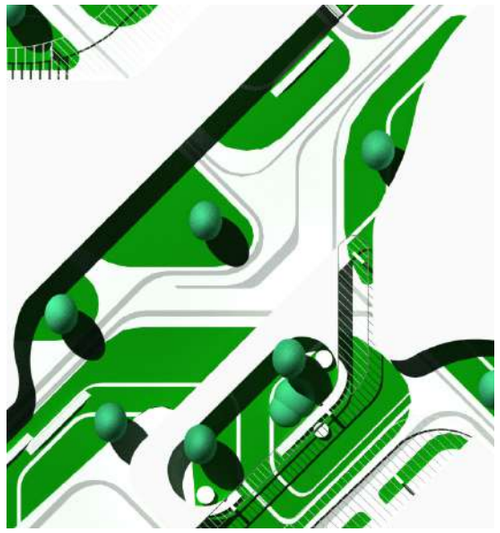
Design Category
Master plan

Project Assign
Individal project

↑
The project serves as a shortcut for students and pedestrians on campus, providing a convenient pathway while showcasing the natural beauty of the Bang Khun Thian KMUTT campus.

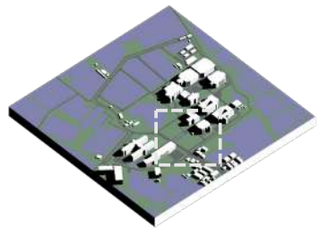
"Green Connect" aims to create a multifaceted educational and recreational space that serves both as a visitor attraction and a learning hub for students and local communities. The project is designed to foster public engagement and environmental education, emphasizing sustainability and ecological awareness through interactive experiences.

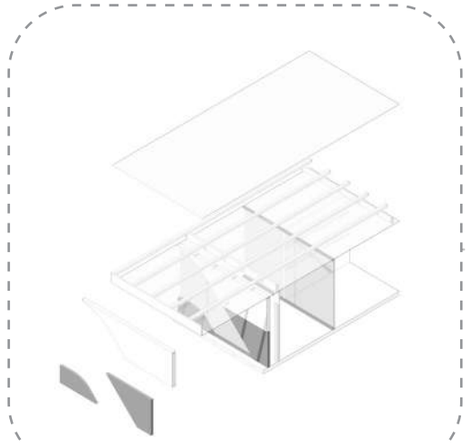
By integrating a series of green roofs, community programs, and public spaces, the design encourages exploration and hands-on learning. These elements work together to provide an immersive experience, allowing visitors to engage with diverse ecosystems, understand sustainable practices

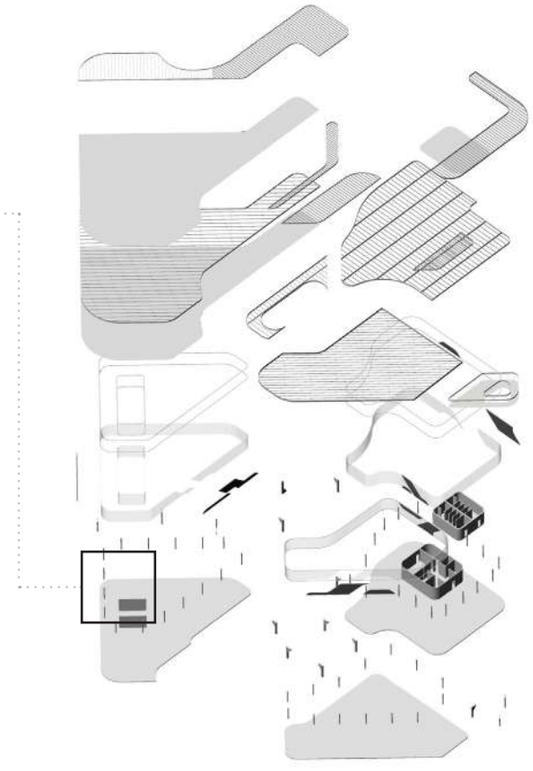


→
Designated areas for community gatherings, educational events, and cultural celebrations will be integrated, ensuring the project remains a vibrant hub for both local and university engagement in include outdoor and in door .

←↑
The project consists of a series of pavilions designed to accommodate programs suitable for students on campus while encouraging walking

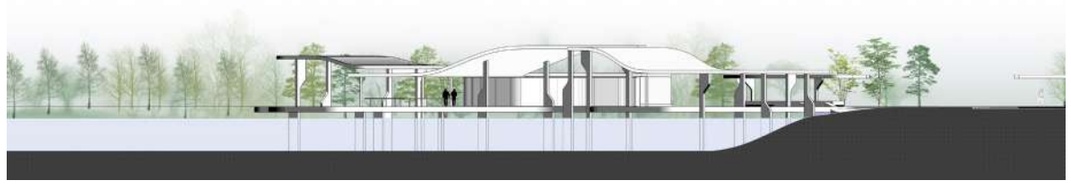


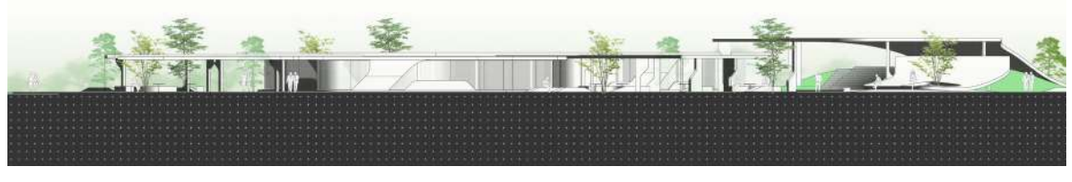




↘→
The Area features eco-friendly shelters with green roofs made of living plants, providing shade and improving the microclimate.

↑→
The building's elevation is designed with a blend of marble, concrete, and glass, creating a refined and cohesive look. This combination enhances aesthetics while ensuring a seamless connection.





STILT LIVING
project: Man on water

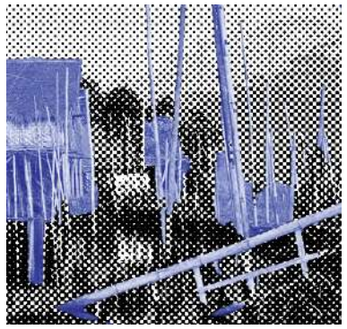
02

Completion
2022

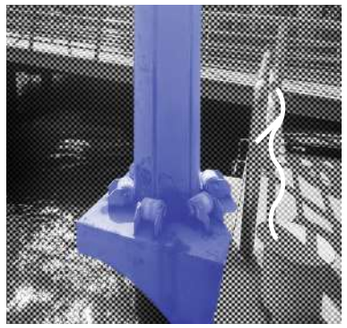
Location
**Thailand, Bangkok,
Samut Prakan District**

Design Category
Resident project

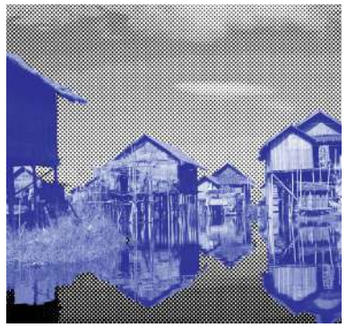
Project Assign
Individual Project



Bamboo still



Dynamic



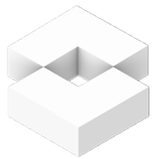
Connectivity

→
During floods, the double-height voids let boats access interior spaces for supply distribution, maintaining functionality and connectivity.

The Stilt Living project explores how architecture can adapt to water-based environments, inspired by traditional stilt houses in flood-prone areas. These elevated structures have long protected communities from rising water, allowing them to thrive despite challenges. This project reimagines that concept with a modern, flexible design that adjusts to changing water levels.

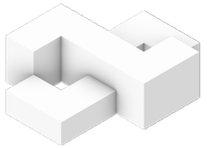
Instead of remaining static, the housing units use a vertical movement system to stay functional during floods while maintaining community connections. The layout groups homes together, encouraging shared spaces and social interaction. Open areas and voids allow boats to pass through, ensuring accessibility even in high water.

Design Devolopement



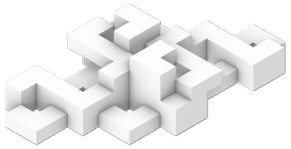
Originate mass

Single unit

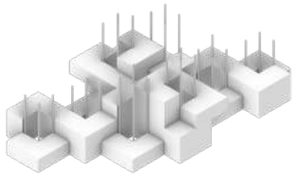


Double unit

Eight unit

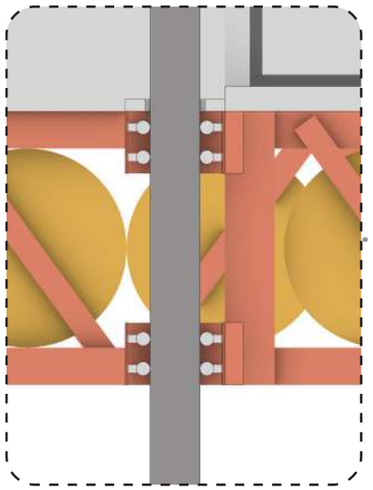


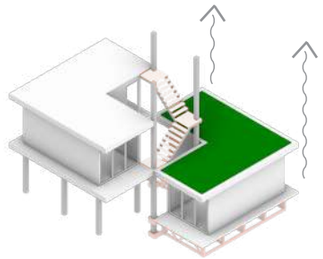
Fifteen unit



Eight unit

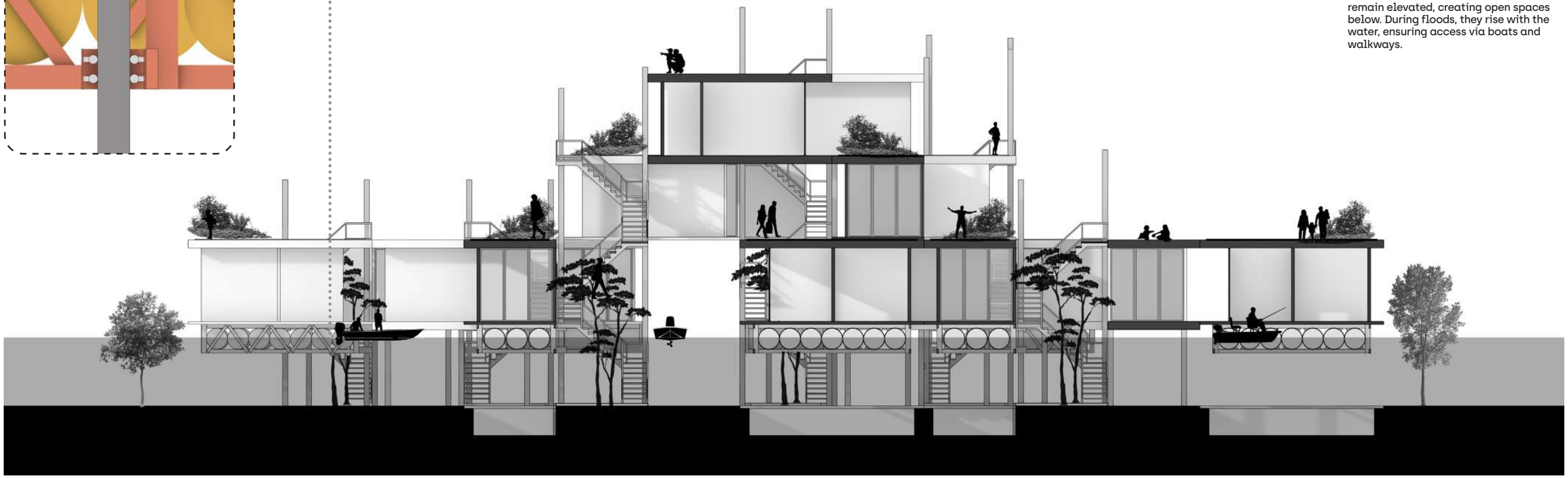
↓
Each unit is built on vertical pillars with rollers that enable the structure to rise with the water level during floods, supported by air containers for buoyancy.





→
The units are arranged in clusters with side entrances to encourage community interaction. The design prioritizes vertical circulation.

↑ ↓
If there is no flood, the stilt houses remain elevated, creating open spaces below. During floods, they rise with the water, ensuring access via boats and walkways.



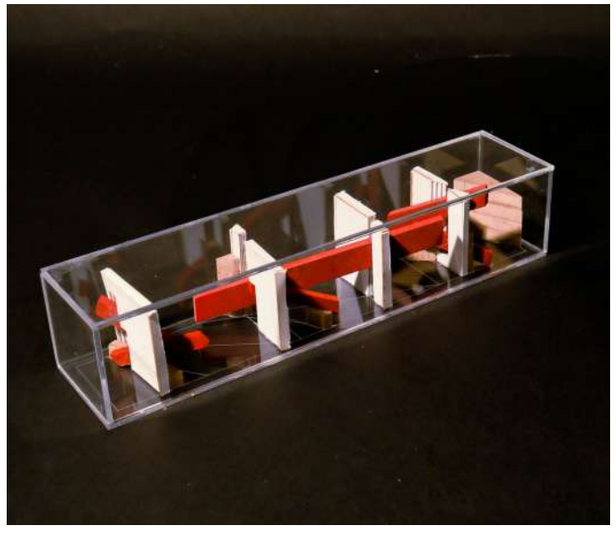
DAVIOD CONSENT OF THE PERPETRATOR
Conceptual project

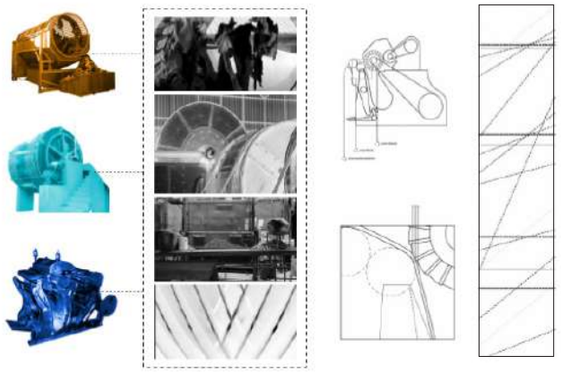
Completion
2023

Location
Kongsiri Tannery Co., Ltd

Design Category
Conceptual project

Project assign
Group work



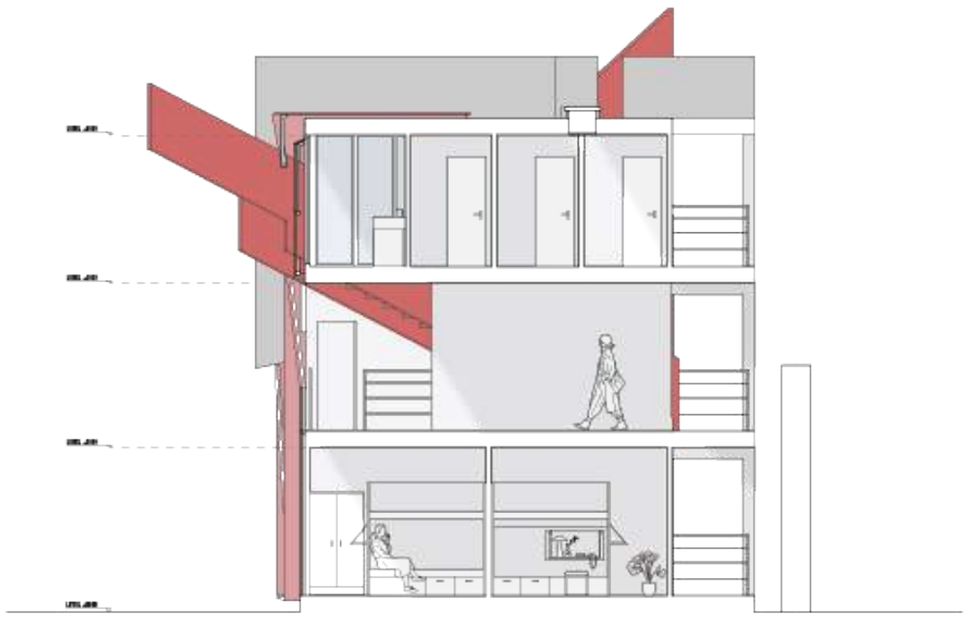


In this project, we explore the concept of spatial constraint and agency through architecture. Instead of a direct social critique, the design translates the experience of workers into an abstract spatial narrative. By incorporating compressed and expanding spaces, the project reflects the tension between restriction and liberation, mirroring the lived reality of labor-intensive environments.

The architectural language draws inspiration from the rhythm of industrial labor, using repetitive structures and undulating facades to symbolize routine and mechanization. Contrasting raw and polished materials highlight the transformation of both physical matter and human effort, reinforcing the theme of systemic control.

↑ The project's conceptual foundation draws a metaphorical parallel between the treatment of cows in the leather industry

←
The facade features a red wire mesh covering the building, with tilted edges that follow the base diagram as a reference for the original design.



↑ ↓
The memory evidences from the observation of worker's apartment and factory on the site visit day create the mentally inscription in which we encode them to the design by making metaphorical statement

↑
With an unusual layout, the design presents the concept of memory as a timeline, reflecting different moments over time. The facade wall represents the passage of time, showcasing its continuous change.

↑
The stairs and walkways are distributed to connect each room while also serving as a symbolic representation of the tannery's history and memory.

↓
The cross-section illustrates the interior of the project, highlighting both the residential and common areas.

TALAT PHLU COURT_YARD
Project: Urban Infill

04

Completion
2024

Location
Talat Phlu District

Design Category
Resident Mix-use

Project Assign
Individual Project

The Talat Phlu Courtyard project is a mixed-use residential development designed to enhance community engagement and preserve the cultural identity of Talat Phlu. Situated in a historically rich district of Bangkok, the area is well known for its street food and temples but lacks communal spaces for leisure and interaction. This project seeks to address this gap by integrating green courtyards and shared spaces within the urban fabric, providing residents with a more inclusive environment.

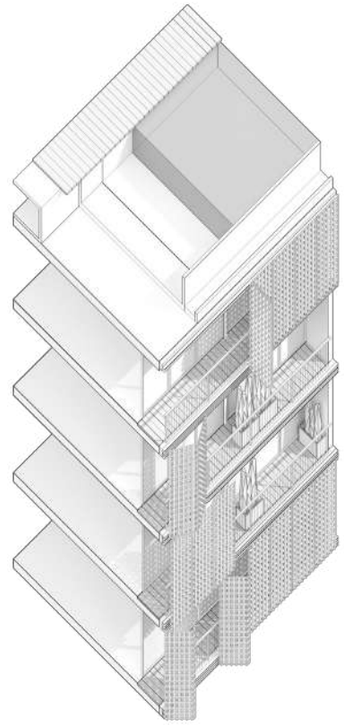
→
The development adds green courtyards, rooftop gardens, coworking spaces, and local shops while fostering community events to preserve Talat Phlu's heritage.

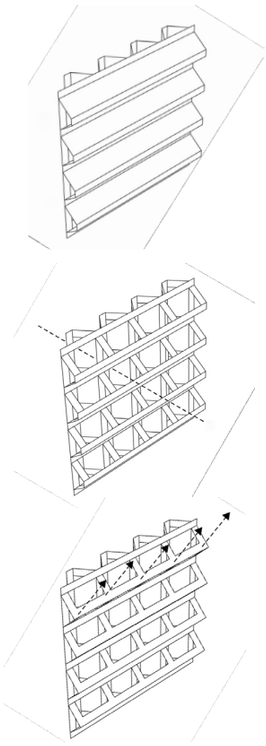
→
This picture shows the entrance of the project, designed to create a welcoming atmosphere, leading visitors into the commercial area and green park, offering a view of the overall project and the buffer green space.

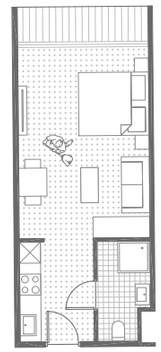
↑
The inner area of the project features a central courtyard where people can gather and engage in new activities. Sheltered spaces are integrated to reduce sunlight, keeping the area cool and comfortable.

↑
The project aims to use the green area as a space where people can relax and enjoy the peaceful atmosphere of Talat Phlu while exploring the heritage of its site.

→
The foldable facade can be opened and closed based on the owner's preference, with aluminum screens designed to reduce sunlight while still allowing views of the outside.

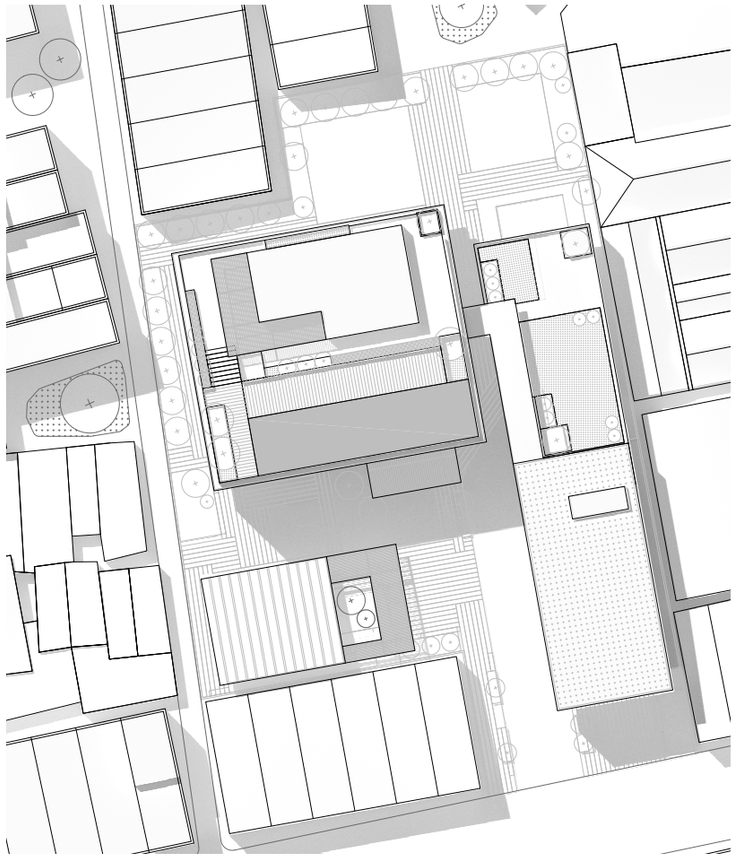






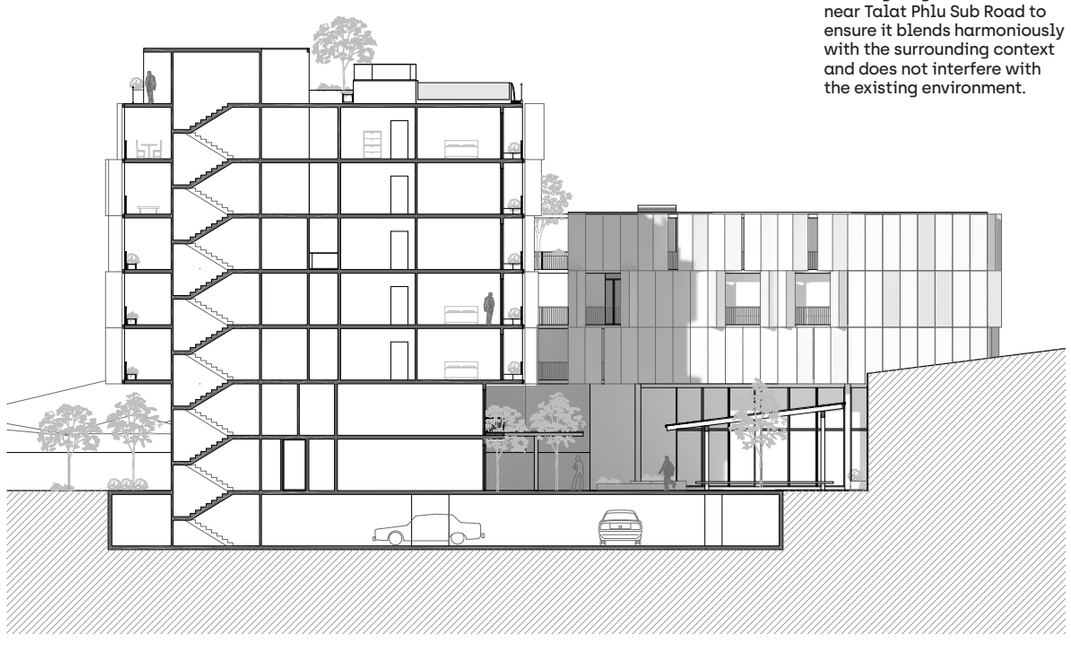
↑
A 35-square-meter studio unit, designed as a starter home for sale, features a functional layout with a comfortable living space and a view of the central courtyard, creating inviting atmosphere.

→
The project incorporates a courtyard as a buffer for the community at the back, while placing the commercial area at the front to attract visitors and encourage engagement with the space.



→
the layout is designed to maximize sunlight exposure, ensuring the room receive natural light for daily activities. green spaces are incorporated to enhance the facilities living environment.

↓
The project lowers the building height at the front near Talat Phlu Sub Road to ensure it blends harmoniously with the surrounding context and does not interfere with the existing environment.



THE HOPE MUSEAM
Project: CCAC

05

Completion
2023

Location
Bangkok, Thailand

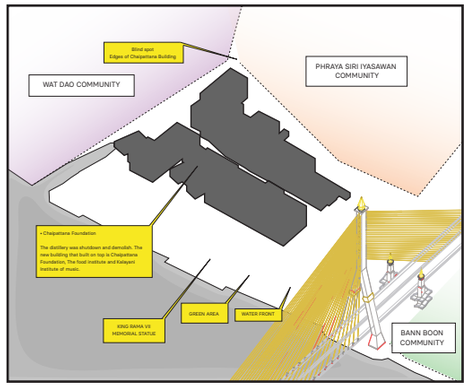
Design Category
Meseam

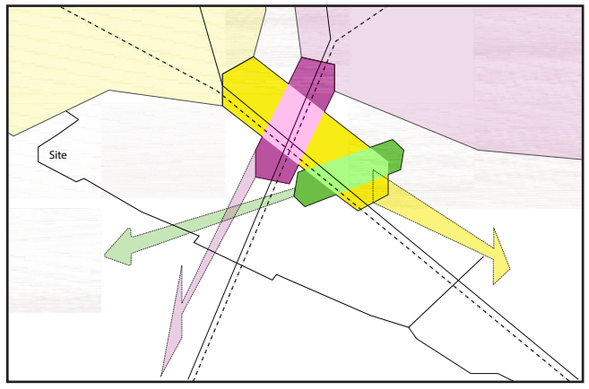
Project Assign
Group project

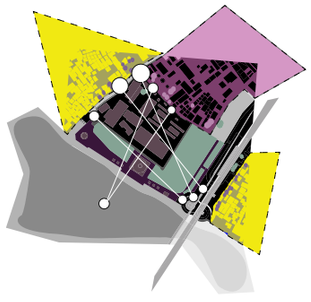
"The Hope" is a cultural and contemporary art center designed to revitalize the Thonburi riverside, reconnecting communities while celebrating traditional and modern artistic expressions. Located beneath the Rama VIII Bridge, the project addresses historical site transformations and environmental concerns, particularly the impact on the Bang Yi Khan Canal.

↑
The park was introduced to serve as a leisure space for people, creating a livable neighborhood and enhancing the community.

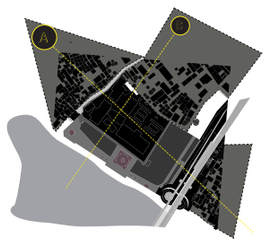
The design combines community spaces, art exhibitions, and green areas, creating an environment that fosters social engagement, sustainability, and cultural exchange. By merging heritage with contemporary creativity, "The Hope" seeks to revitalize local identity, enhance awareness, and provide a cultural hub that serves both Locals and visitors, encouraging interaction and appreciation of the area's rich history and artistic potential.



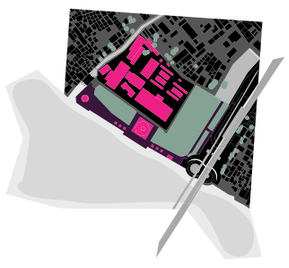




↑
The design aims to connect the community by using the museum as a central link, creating pathways that encourage interaction.

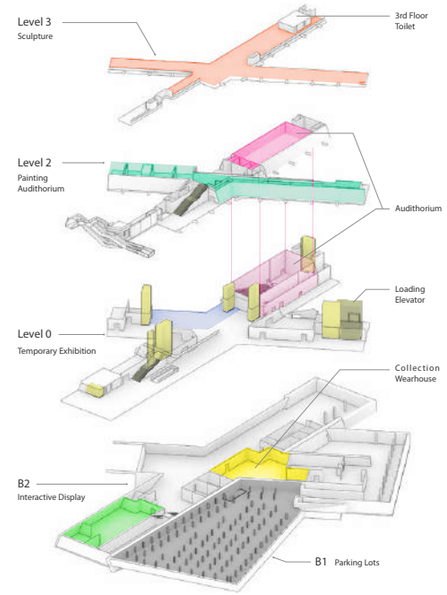


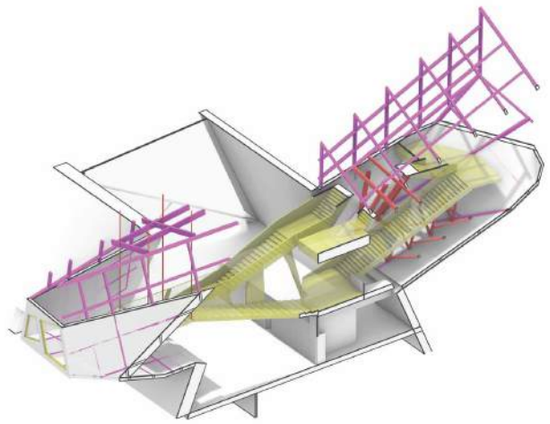
↗
The main route is designed to connect people, providing leisure spaces while ensuring easy access to the waterfront.



Space Programming

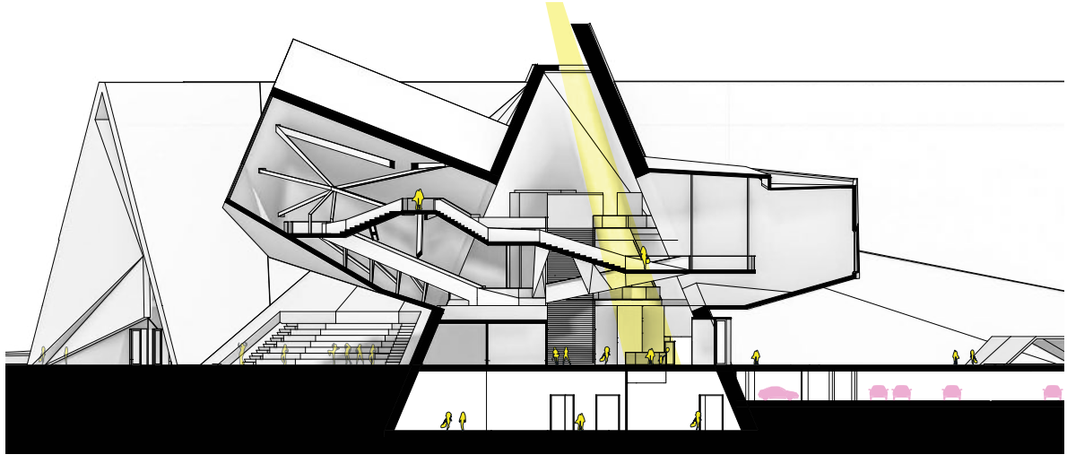
• Exhibitions Space





↗
The steel structure plays a pivotal role in bringing this vision to life. Illustrated in the diagrams, the triangular framework elegantly weaves through the building

↗
The program was reorganized based on the site's location and community needs, creating a space that elevates and showcases Thai artists to a wider audience.



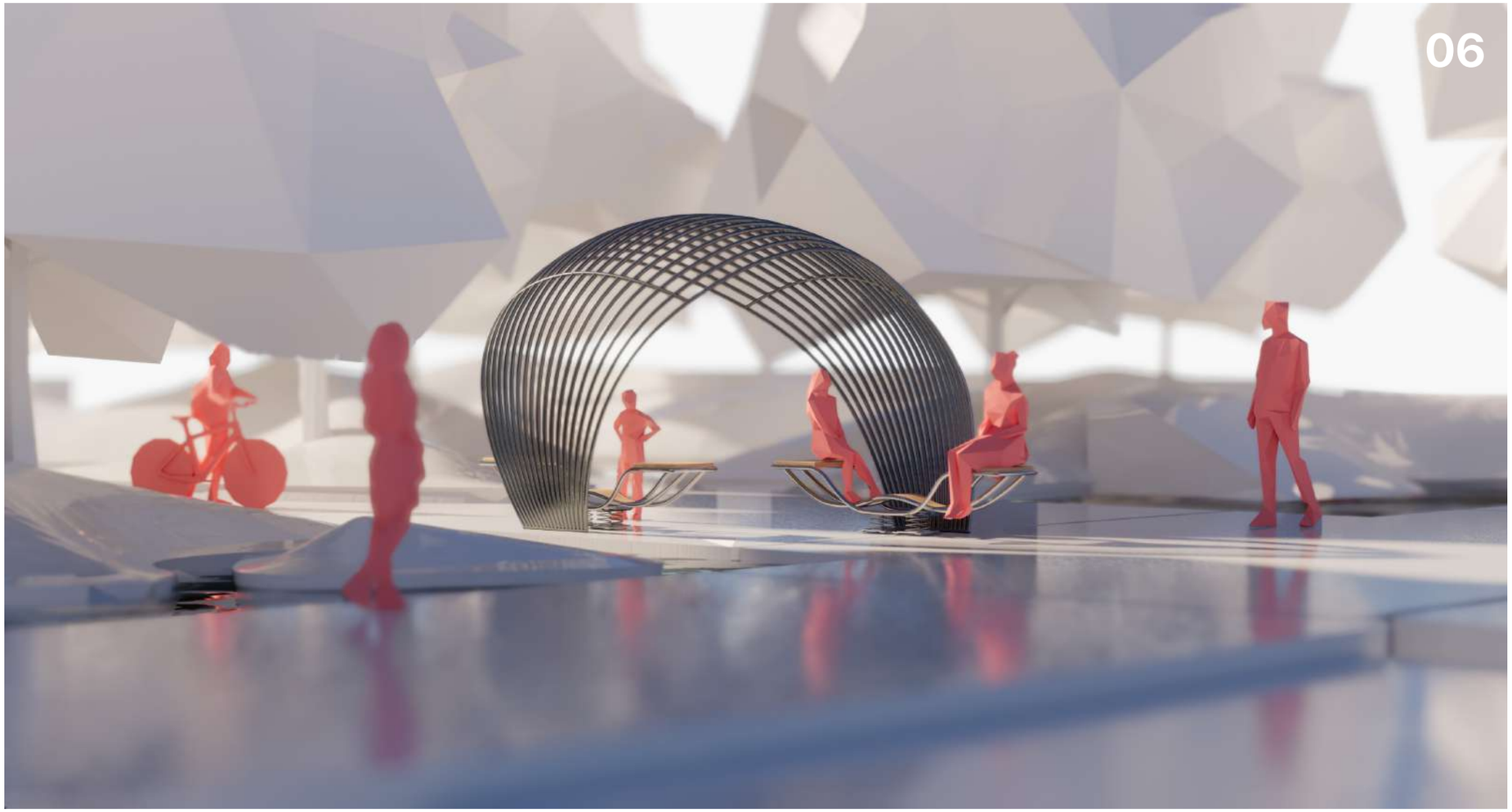
SEE-KLONG
Seatscape & beyond 2022

Completion
2022

Location
One-bangkok, Lumphini

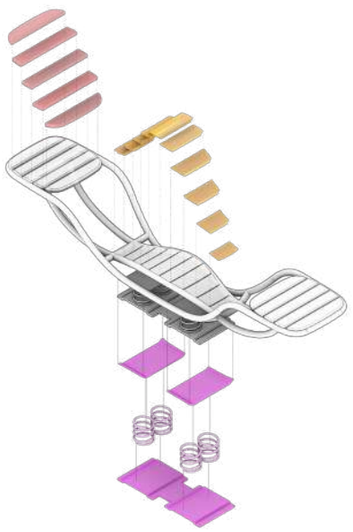
Design Category
Urban furniture
Competition

Project Assign
Group project

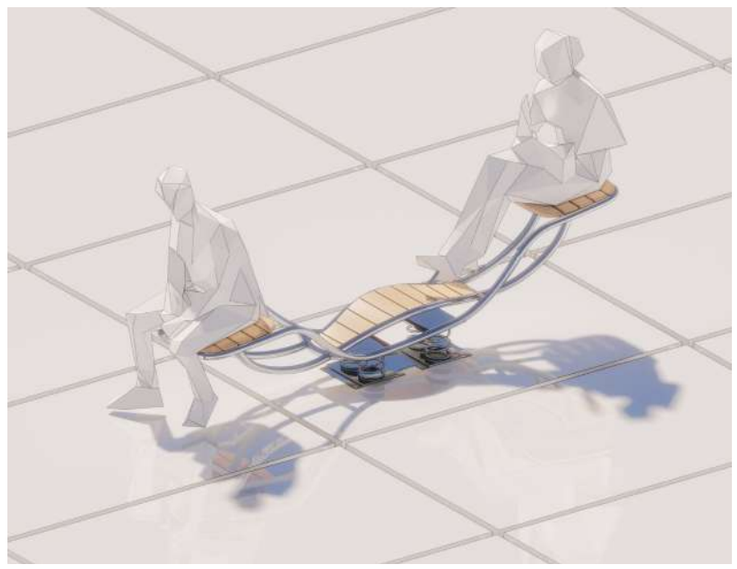


The SEE-KLONG project is an urban furniture design inspired by Bangkok's historic canals and the Sampan Suan boats once used for transportation and trade. The design takes the form of a seesaw-like bench, encouraging interaction and balance between users while reflecting the dynamic nature of water-based communities.

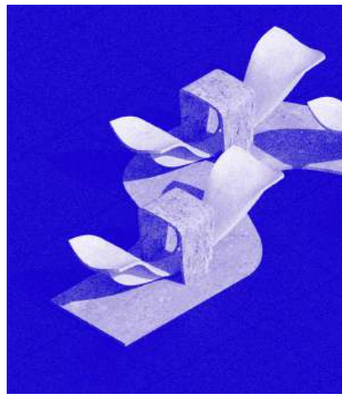
The bench's curved roof structure echoes the shape of traditional wooden boats, creating a visual link to Bangkok's cultural past. By integrating movement into its design, the project fosters a sense of playfulness and engagement, making public spaces more interactive and socially inclusive.

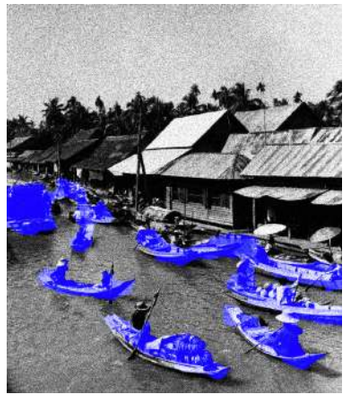


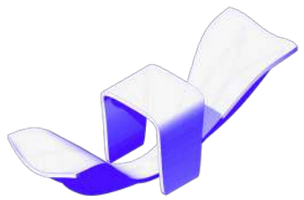
→
The structure uses a wood or metal frame with a weather-resistant finish, and integrated springs to mimic the movement of a boat. enhancing the interactive experience.

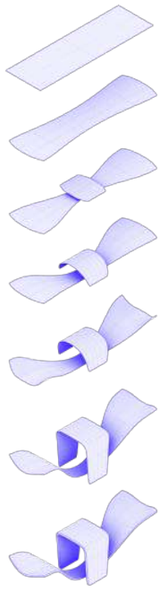


← ↑
The bench mimics the gentle motion of Sampan Suan boats through a s0eesaw-like mechanism and spring supports. This dynamic movement encourages historic connection to its waterways.



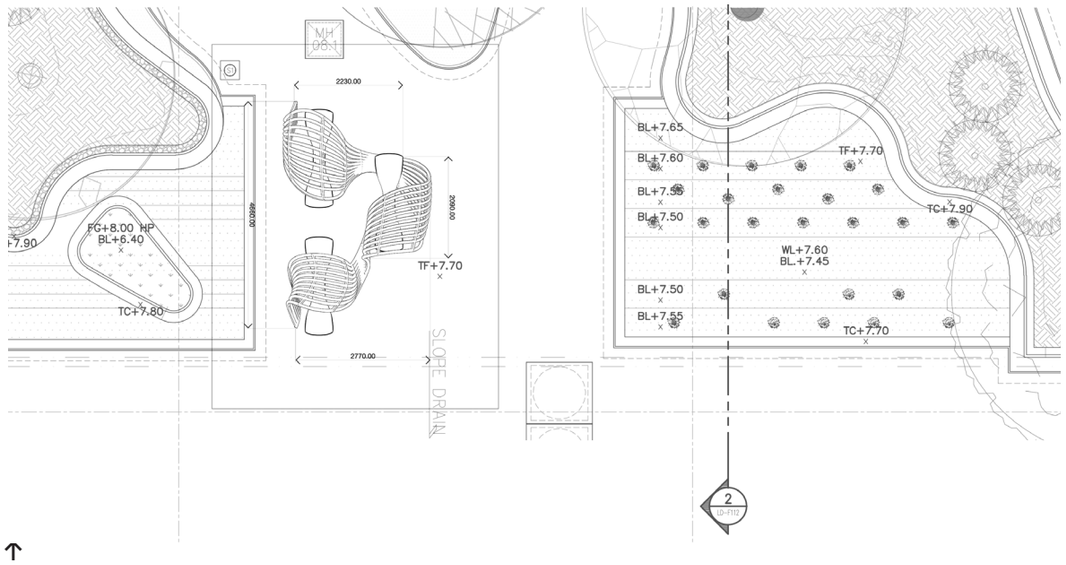




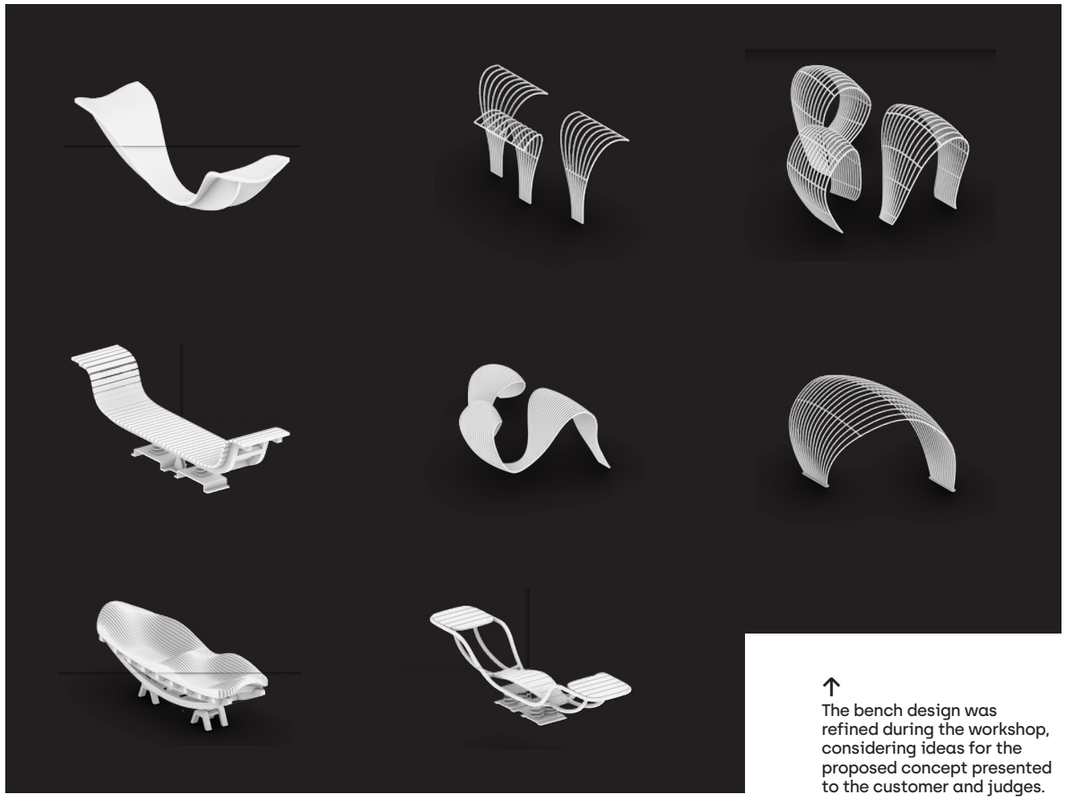


←↑
The first prototype was designed to capture the movement of the Sampan Suan boat, serving as a concept for further development.

←
The Furniture will be installed at the center of One Bangkok Park, blending seamlessly with its surroundings. It can also be placed near the water park, enhancing its connection to the design concept.



↑
The process incorporates design development and construction drawings to ensure accuracy and leading to the final result.



↑
The bench design was refined during the workshop, considering ideas for the proposed concept presented to the customer and judges.

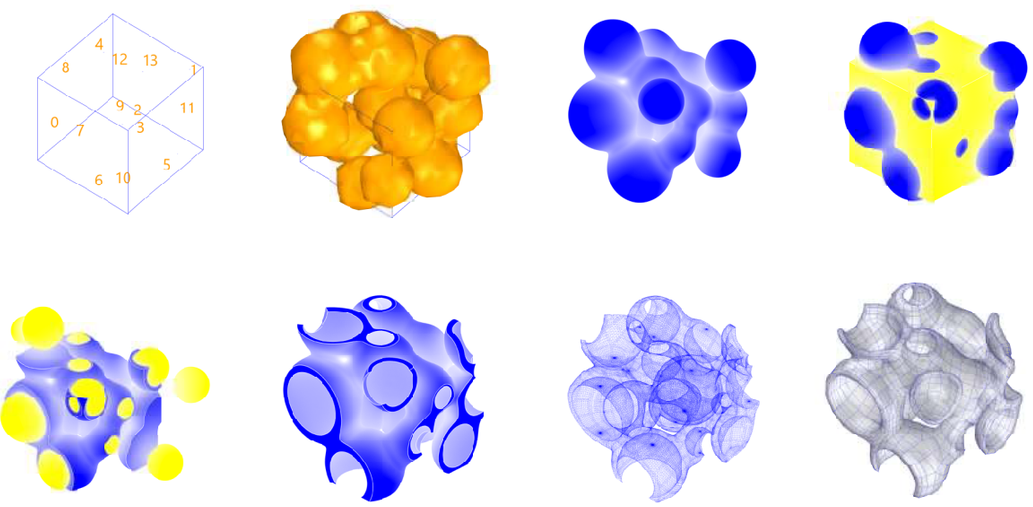
COMPUTATIONAL DESIGN
3D Computation object

07

Completion
2023

Design Category
3d Object

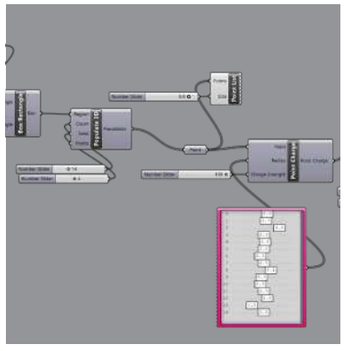
Project assign
Group project

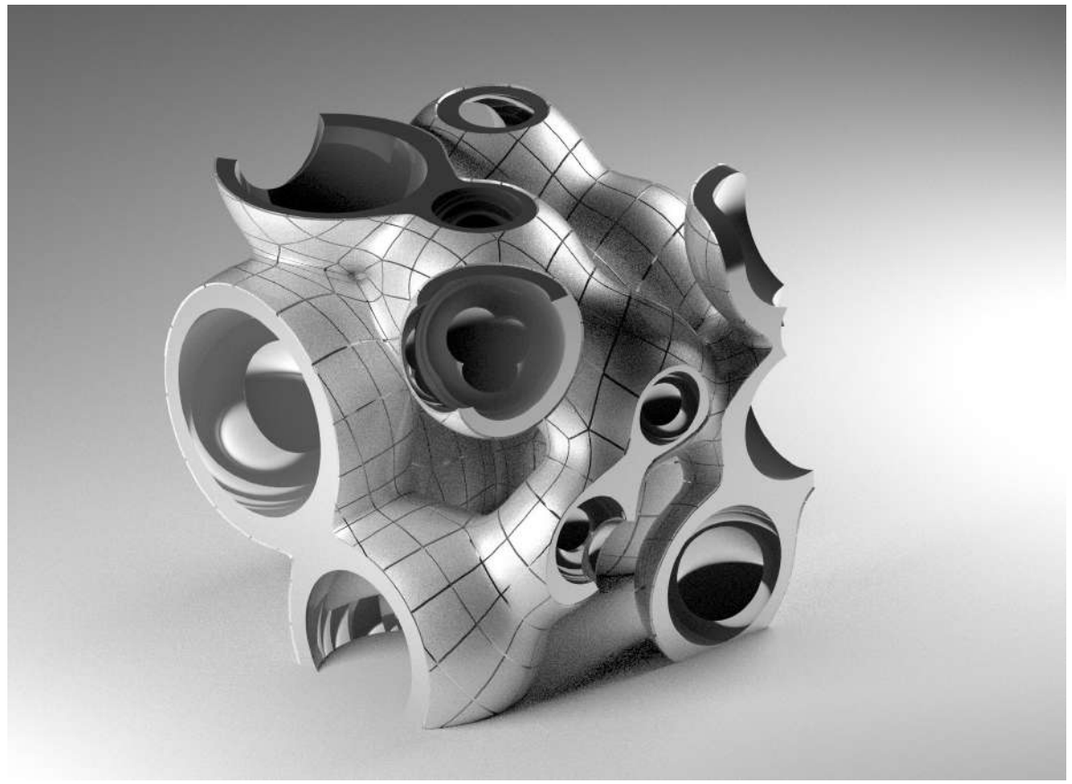


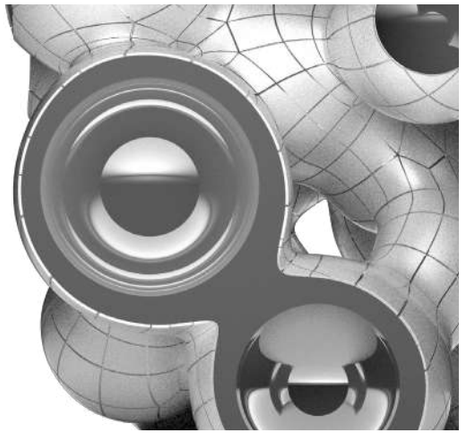
←↑
Cocoon meshing refines the form, while Boolean operations carve out negative space, balancing solid and void elements.

The project uses computational design to create a 30cm x 30cm x 30cm 3D object in Grasshopper, inspired by nuclear fission. Spheres represent atoms, linked through Pipes, Delaunay equations, and Cocoon, forming a network that mimics a chain reaction in an enclosed space.

The design carves out negative space, creating depth and variation. By linking geometries dynamically, the form captures the motion of atomic structures, resulting spatial composition.







←↑
The design is then optimized for spatial variation and fabrication feasibility, ensuring stability while preserving intricate details. The final result captures the motion and connectivity of nuclear fission in an enclosed space.

Bamboo Spiral
Mixed Reality Fabrication

08

Completion
2023

Location
KMUTT
Bang Khun Thian, BKK

Design Category
Mixed Reality
Fabrication

Project Assign
Group project

The project explores bamboo's bending limits without cutting, using its compression and tension properties. The spiral form was chosen for its flexibility and strength, creating a balance between stability and fluidity while showcasing bamboo's natural behavior.

To ensure precision, AR-VR headsets were used for real-time visualization during construction. A locking mechanism enhances adaptability and durability, maintaining both movement and stability. The final design blends traditional craftsmanship with digital tools, highlighting bamboo's versatility in modern construction.

→
This approach merges traditional material knowledge with computational design, demonstrating bamboo's potential in innovative architectural applications.

↓
An image showing Fologram in both the digital model on a computer and its real-world application.

←
The work starts by setting the project origin in Fologram and the real-world reference point, using QR code tracking as a base for fabrication.

↑
After tying all the bamboo sticks, the wood frame is removed piece by piece, and the structure is then suspended.

→
Construction begins with manual point-by-point adjustments, assisted by HoloLens to overlay the reference image.

ROOTED CURRENTS
Regenerative Urban design Changzu Island

Completion
2025

Location
Changzu Island, Guang-zhou,China

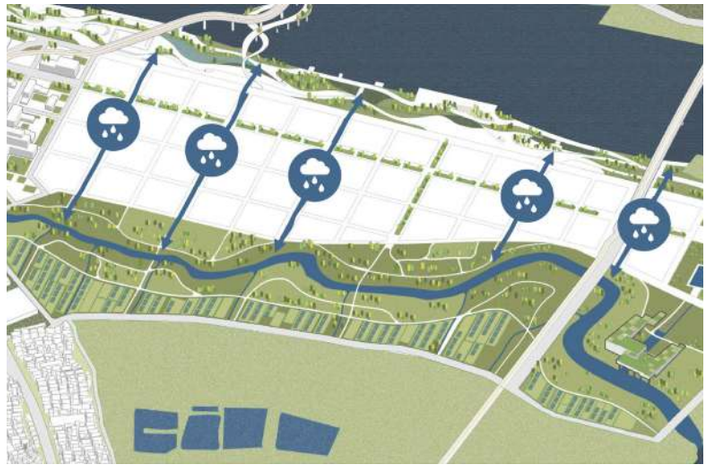
Design Category
City planing competition

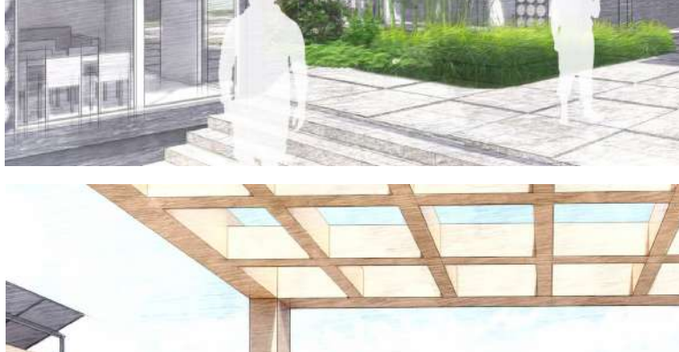
Project Assign
Group project

Rooted Currents is a regenerative urban design proposal for Changzhou Island, Guangzhou. It addresses climate risks, cultural erosion, and socio-economic stagnation through three guiding strategies: Sustained Living (human-scale, walkable neighborhoods with resilient infrastructure), Embraced Heritage (revitalizing Lingnan traditions, adaptive reuse, and cultural economies), and Protected Cycles (integrated water management, sponge city systems, and renewable energy). By harmonizing ecology, culture, and community, the project envisions a replicable model for resilient island urbanism that thrives with nature rather than against it

←↑
Rooted Currents envisions Changzhou Island as a resilient island city of compact, walkable villages linked by cultural and ecological corridors, where urban growth slows to strengthen identity and water is reimagined through sponge city systems—canals, wetlands, and elevated grounds—transforming floods into civic landscapes that sustain community, ecology, and self-sufficiency.

↑
The city plan envisions Island as a network of compact, walkable villages linked by green "mobility and cultural corridors. This human-scale approach balances living, working, and leisure spaces while embedding heritage and ecology into the daily fabric of life.





↑
The design carves out negative space, creating depth and variation. By linking geometries dynamically, the form captures the motion of atomic structures, resulting spatial composition.

←
The project employs bio-based materials such as cross-laminated timber, oyster shell walls, and low-carbon concrete. These are layered with bamboo, clay, and recycled composites, forming a system that reduces carbon, enhances cooling, and reinterprets Lingnan traditions in a sustainable way.

CLASTER BUIDING

The building units blend modularity with tradition, using dynamic forms and passive systems to create resilient, low-carbon spaces rooted in culture and ecology.