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Cover Letter

Dear Sir/Madam,

I am a recent graduate of the Glasgow School of Art, having earned a Master of Architecture degree (RIBA Part II) following the completion of my Bachelor of Arts with Honours in Architecture from the University of Liverpool. My educational background has equipped me with a wealth of knowledge and skills in architectural design, building technology, urban planning, and sustainability. My foremost skill lies in designing architectural plans. I possess a keen ability to systematically organize spaces and functions within my designs, prioritizing the practicality of space in each project. As the renowned architect Le Corbusier once observed, "the plan is the generator." Although my work has been heavily influenced by modernist architectural theories, I maintain a strong conviction that architecture should not merely serve functional purposes. Instead, I am driven by a passion for creating designs that reflect and enhance the spirit of place, particularly through the use of geometric volumes. During my Diploma of Architecture (RIBA Part II) studies, my interest was piqued by Transformation design, Urban Acupuncture and Urban Intervention design. In my final thesis design, I created a multi-functional bridge aimed at reducing social inequality that would connect different districts within Glasgow. Thereafter, I sought to explore additional possibilities for building urban intervention with a light Urban Acupuncture design in my Master's studies. Photography is one of my biggest hobbies. It has not only greatly improved my understanding and pursuit of aesthetics, but also constantly made me think about the relationship between people, architecture, and cities in life, providing me with more inspiration for my architectural design.

In addition to my academic studies, I had the opportunity to gain practical experience through a six-month internship at MR. Modern Architects in Shanghai. During this time, I assisted senior architects in various design and development projects. This experience provided me with invaluable hands-on training and exposure to real-world challenges within the field of architecture. Moreover, I possess solid skills in various software tools that are essential for architectural design and development, including Rhino, Sketchup, Adobe Suite, V-ray, and Enscape. I am confident that my proficiency in these tools, combined with my academic qualifications and professional experience, would enable me to make valuable contributions as an Architectural Assistant.

Furthermore, I possess exceptional communication, collaboration, and problem-solving skills, as well as strong leadership abilities. During my undergraduate years, I worked as the store manager of a charity shop in XJTLU, where I honed my organizational and leadership skills. Moreover, I have actively participated in various public welfare activities, including a six-month escort activity for autistic children in Suzhou. These experiences have enabled me to develop strong interpersonal skills, enabling me to work effectively with clients and team members.

Overall, I believe that my academic background, practical experience, passion for architectural design, and pursuit of aesthetics make me a strong candidate for the Architectural Assistant position. I would be honored to have the opportunity to further discuss my application with you.

Thank you for considering my application.

Sincerely,

Biaotong Geng



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EDUCATION					
09/2022-02/2023	Glasgow school of Art, Mackintosh school of Architecture (Master of Architecture, RIBA PART 2 Class two, Division one)				
09/2020-06/2022	Glasgow school of Art, Mackintosh school of Architecture (Diploma of Architecture, RIBA PART 2)				
09/2017-07/2019	University of liverpool (Bachelor of Arts in Architecture with Honours, RIBA PART 1 Class two, Division one)				
09/2015-09/2017	Xi'an Jiaotong-Liverpool University (Bachelor of Engineering in Architecture)				
10/2019-03/2020	Intern in MR. Modern Architects, Shanghai, China (architectural assistant)				
	 Research // Site analysis // Concept design // 3D Modeling // Plans drawing // Rendeing // Presentation Warehouse reconstruction on Shanghai Old Wharf, Shanghai Zhongyang Plaza's conceptual design and urban design, Haian, China Root, Wuzhen's conceptual design, Wuzhen, China WAZINONG Renovation, Shanghai, China 				
06/2017-09/2017	Intern in Guangsha Architects, Shijiazhuang, China				
	-Residential architecture design in Shijiazhuang, China - Research // Site analysis // Concept design // 3D Modeling // Plans drawing // Rendeing				
SKILL					
Professional	Autocad Illustrator Photoshop Indesign Sketchup Rhino Vray Microsoft Office Suite Model making Revit Landscape & portrait photography				
LANGUAGE					
	English Mandarin				

BIAOTONG GENG 耿 彪 童 P O R T F O L I O

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01: A City Intervention Bridge of Memory – 记忆之桥

Glasgow school of Art - Stage5 Academic Work Rhino, Autocad, illustrator, V-ray and Photoshop Carried out date: June 2022

Individual Work

"Recollections are frequently elusive and challenging to capture, akin to a resplendent city obscured by clouds and mountains. There is a universal desire for a bridge to permanently connect our memories, thus safeguarding them from loss. Such a bridge is imperative, as memories play a vital role in our lives and serve as a testament to our connection with the world, ultimately sustaining our souls."

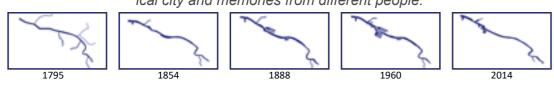
Thesis

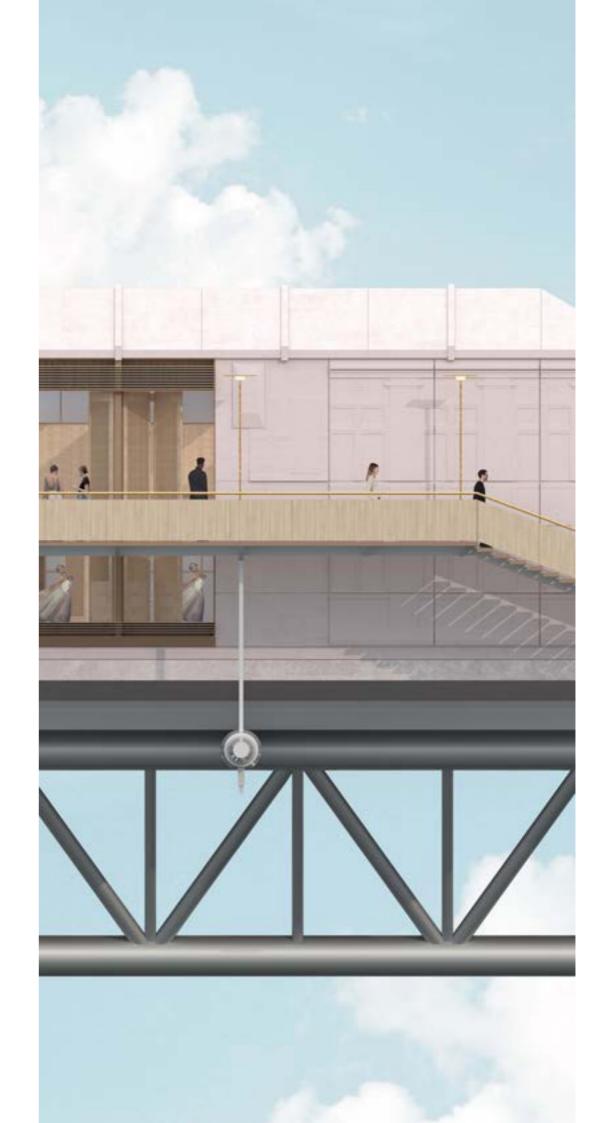
River Clyde is an iconic feature of Glasgow, as people often say, "Glasgow made the Clyde and the Clyde made Glasgow." This river has played a significant role in Glasgow's development and history, from the shipping trade period to the heavy industry period, providing numerous benefits to the city's people. However, the connection between citizens' daily life and the Clyde River is diminishing with time. During the industrial period, this river was separated from residential areas by factories and docks. Even today, though Glasgow's heavy industry has mostly disappeared, the Clyde River still holds vast potential for development due to the lack of facilities along its banks. At certain points, the river also serves as a strong boundary separating Glasgow's city and culture, causing residents' memories of this river and city to fade. The river's mission to make the city better is not over yet, and it is time to reconnect the city and give the Clyde River back to the residents!

This project aims to design a "Bridge of Memory" to break the barriers such as railways, highways, and abandoned areas to reconnect the separated parts of Glasgow and drive better city development in the future.

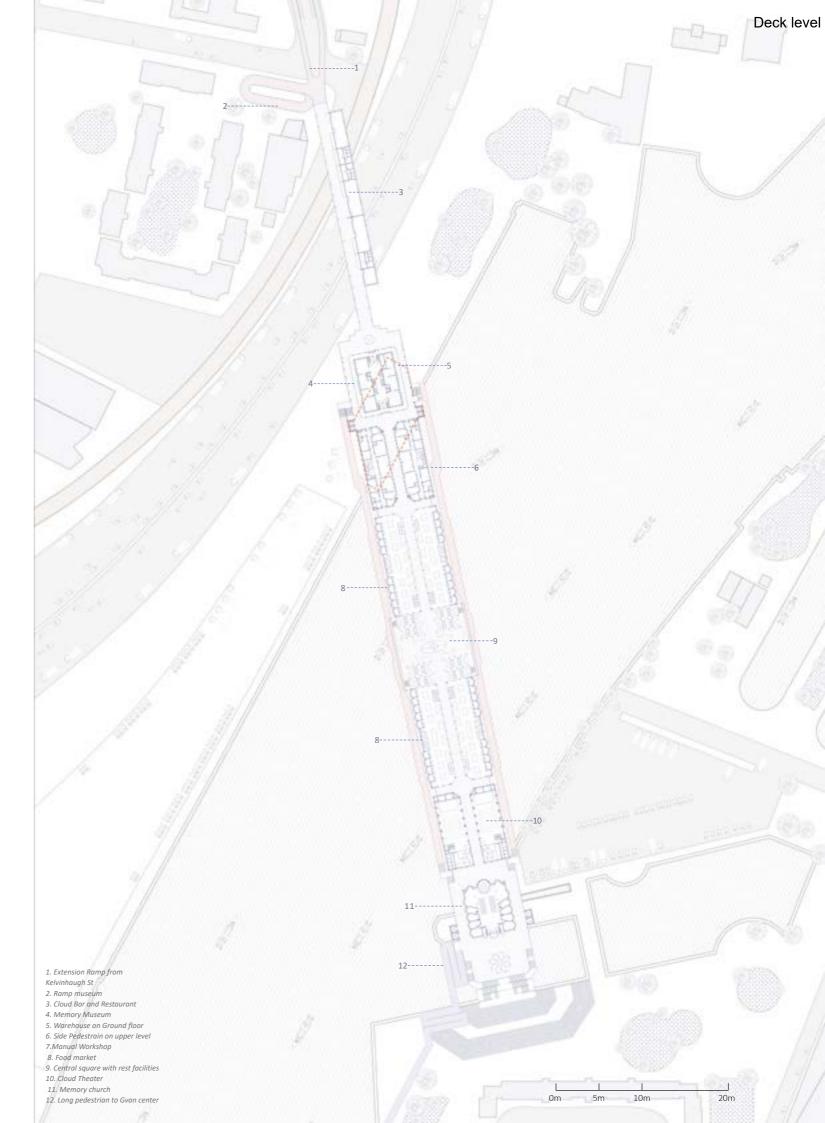
"Memory" refers to people's experiences, skills, or culture. Memories are often elusive and challenging to capture, much like a magnificent city hidden in the clouds and mountains. We all long for a bridge to connect our memories permanently to prevent them from being lost because they are so crucial to our lives, and they bear witness to our connection with the world, keeping our souls alive.

Bridges always represent connection and support. In this project, a "Bridge of Memory" will be constructed. It will be a living bridge with various functional areas for connecting the separated parts of the city on the one hand, and more importantly, it will help reconnect Glasgow's citizens and culture by evoking and creating people's memories. Memories of the city, memories of citizens' lives. By evoking the memory of Glasgow and River Clyde, the past and present can be linked. By recalling citizens' memories of their own lives, Glasgow city and the world can be connected. By creating fantastic new memories, today's Glasgow can be linked with people's future lives. A better connection can be established by the intersection of the physical city and memories from different people.







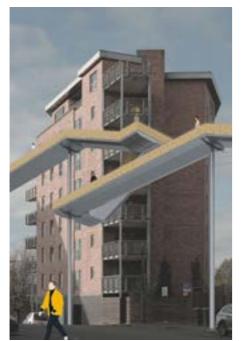




Memory church



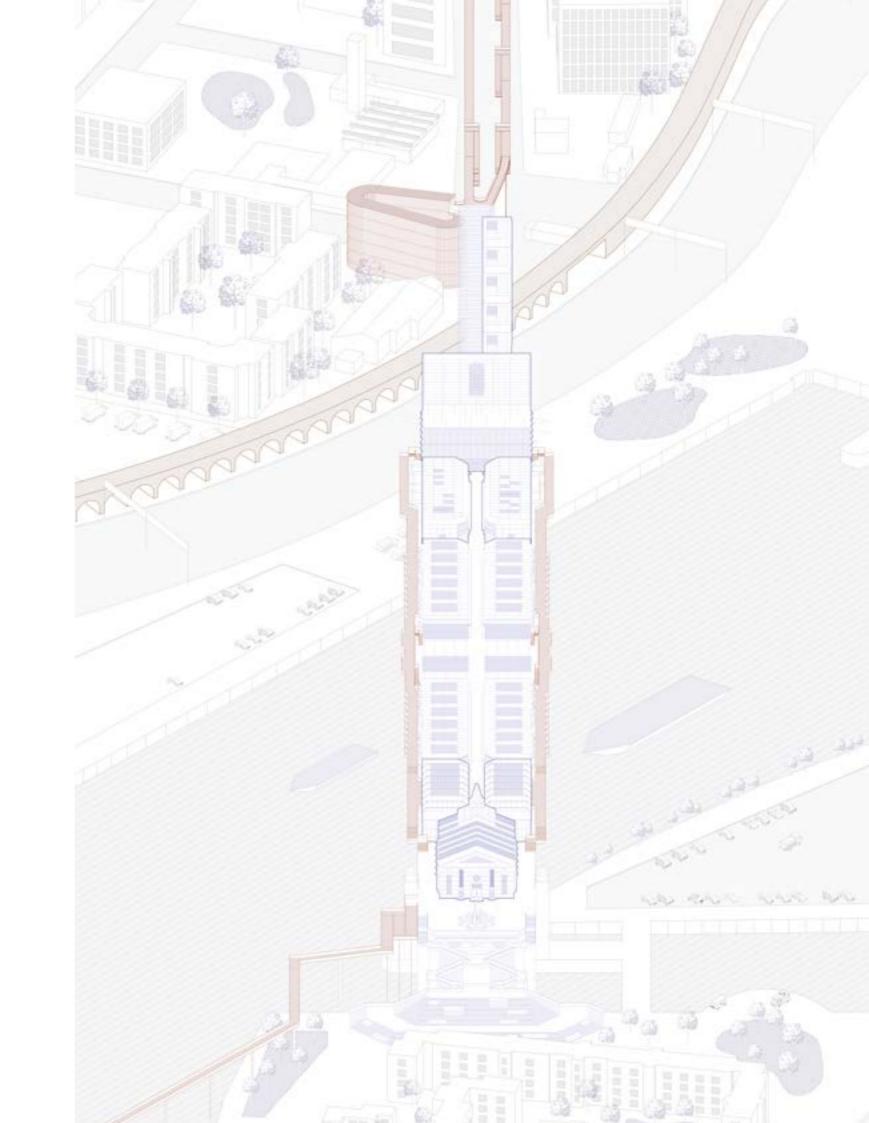
Central square

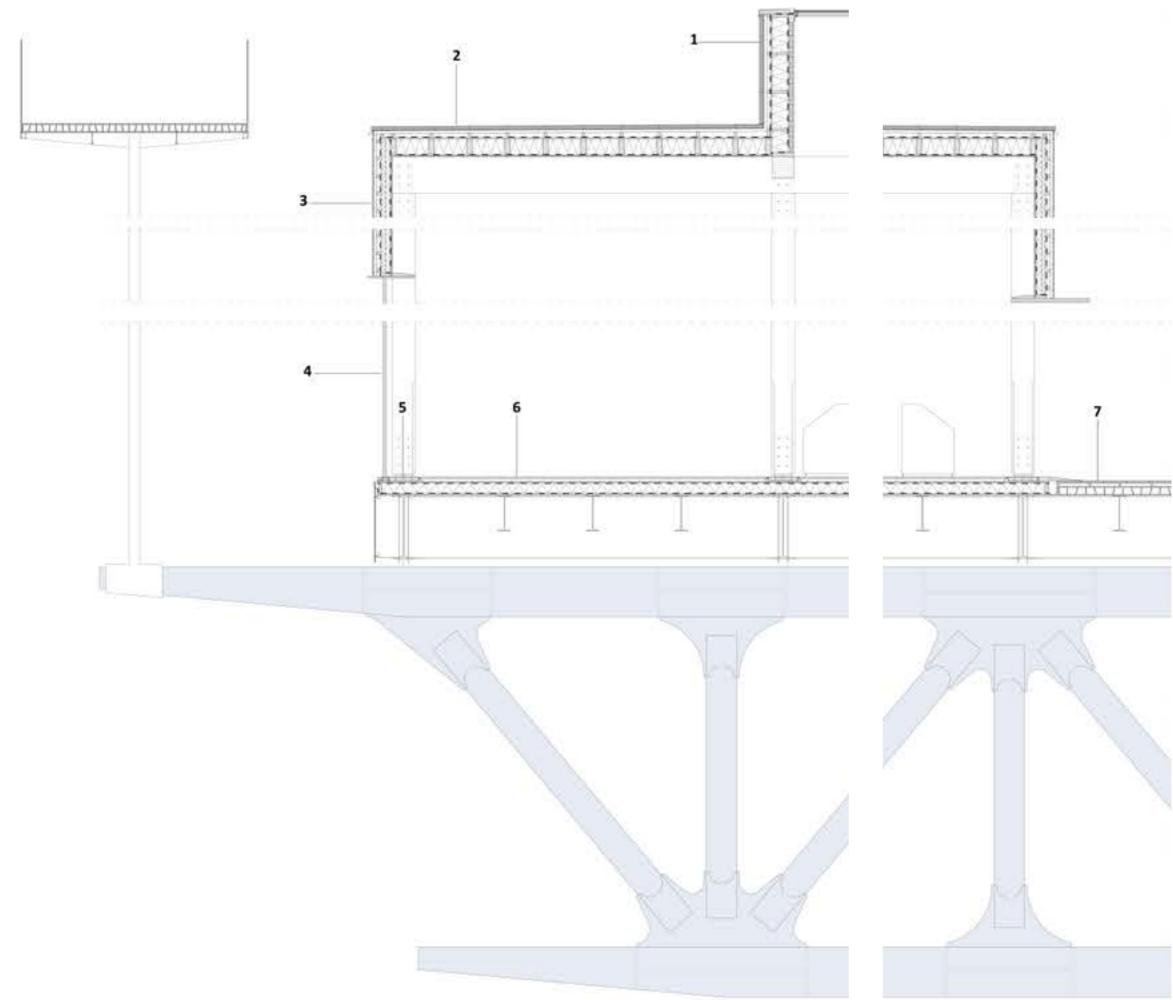


Ramp above Kelvinhaugh St



Cloud Bar and Restaurant





- 1 roof construction: 40 mm cementbound particle board 45/45 mm battens 45/45mm counterbattens elastomeric bitumen sealant layer 18 mm cementbound particle board 40/200 mm rafters 200 mm inlaid mineral wool thermal insulation vapour barrier 72 mm spruce cross laminated timber
- 2 roof construction: 40 mm cementbound particle board 45/45 mm battens 45/45mm counterbattens elastomeric bitumen sealant layer 18 mm cementbound particle board 70/200 mm rafters 200 mm inlaid mineral wool thermal insulation vapour barrier 19 mm smooth pine cladding 120/500 mm beech Glue-laminated timber
- 3 wall construction: 12mm cement bound particle board 40/40 mm vertical wood batterns 45/45 mm horizontal wood counterbatterns sarking layer 50 + 60 mm inlaid mineral wool thermal insulation vapour barrier 19 mm smooth pine cladding 120 / 320 mm beech Glue-laminated timber
- 4 fixed glazing in pine frame
- 5 cable duct with plywood cover
- 6 Floor construction: 18 mm pine floor boards support frame beech blocking underfloor heating 18mm waterproof MDF panel vapour barrier 140 mm wood fibre insulation PE foil 22 mm beech panel 290/835 mm main steel frame 163/467 mm steel frame triangular hollow space truss
- 7 outdoor floor construction: 32 mm timber cladding 45 mm support frame 120 mm Carbon Fiber-reinforce polymer deck





02:Urban Building Barras Theater – Barras 中心剧场

Glasgow school of Art Academic Work - Stage4 Rhino, Autocad, illustrator, V-ray and Photoshop Carried out date: June 2021

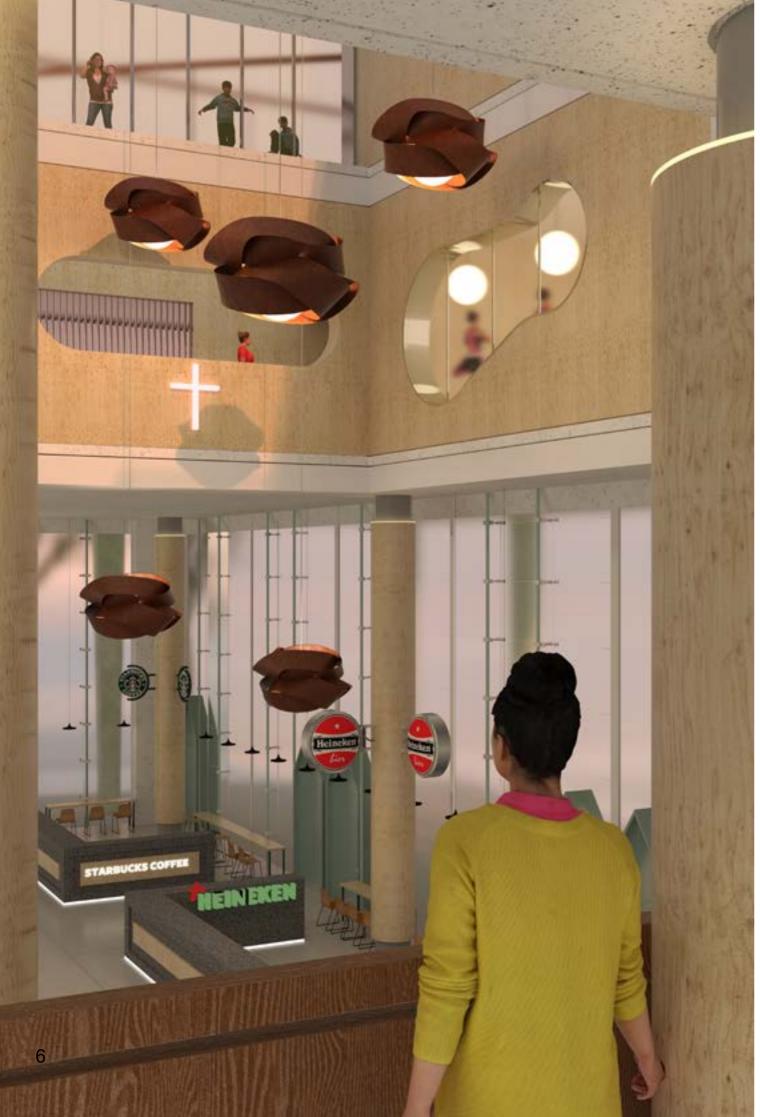
Individual Work

From the design of my P3 Urban house, it is apparent that domestic and labor areas will no longer be divided in citizens' homes, and houses will become more modular in the future. This may exacerbate the alienation between citizens, especially in the post-information age. Therefore, this urban building should act as a stage, stimulating citizens' communication and integrating various places with various functions, like different shows on one stage.

Moreover, this urban building should also be conducive to rebuilding the Barras market. By acting as a stage with different shows, citizens can find different spaces with various functions, including markets, churches, museums, playgrounds, cafes, and theaters, all with enough communication areas. Citizens will not have to travel through different streets in Glasgow to find these public spaces; they can all be found in this building. This would help to rebuild the Barras as a new business center. Additionally, this building should learn from the Barras market's tradition and provide enough open-air spaces on the ground floor, combined with a transparent boundary, which will introduce the city space into the building. Businessmen can build their street markets here, and local artists can hold street shows in this space.

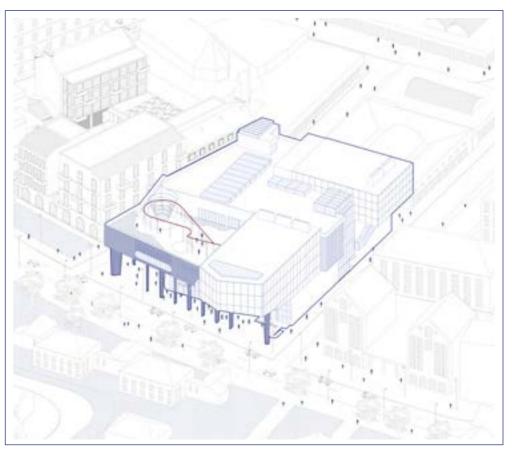
Lastly, in theater, the dramatic effect of a live show is often built on contrast characteristics. This building will learn from this essence of performance and incorporate different constructions with different architectural languages, which will be visible from the outside. Citizens can discover different events with different architectural languages and be drawn to explore the internal spaces, much like watching a play on the street. This feature will attract citizens and make the building more dynamic





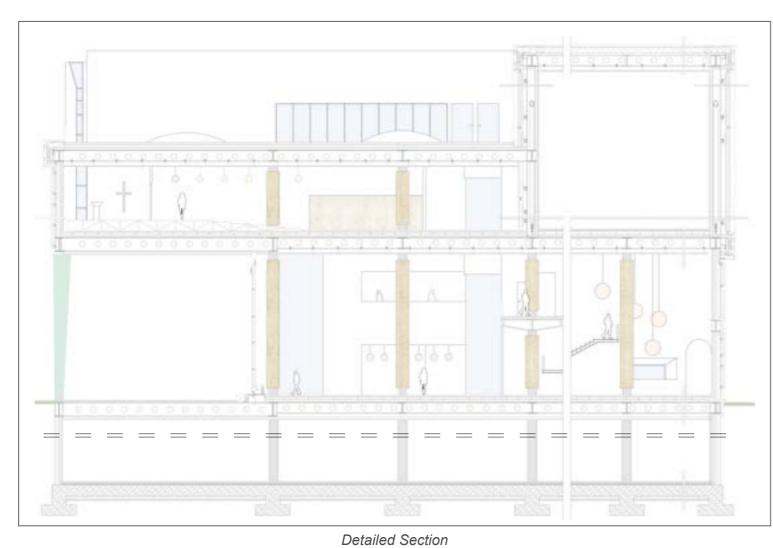


Elevation east view



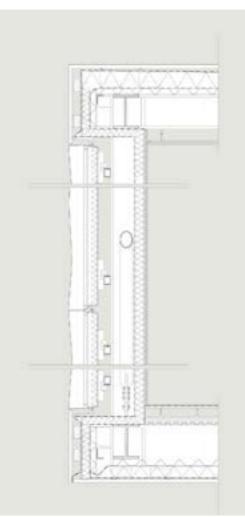
Axonometric bird view

The vantage point of the atrium allows for a panoramic view of the v a r i o u s events taking place on the multiple levels.

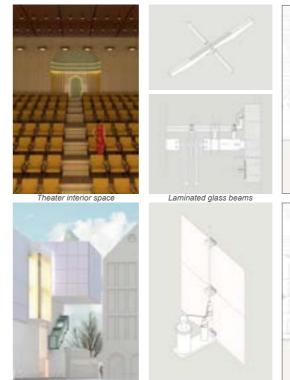




1:500 Ground floor plan

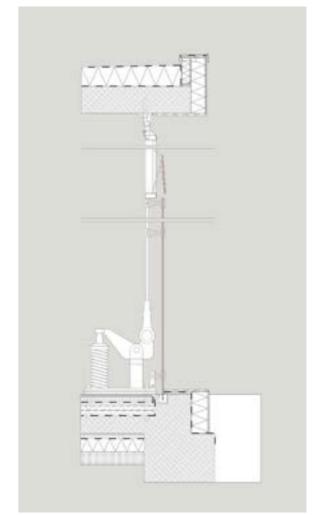


Cantilever structure with FRP panel

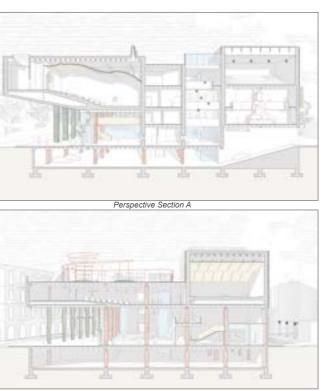


View from Pipe factory

Glass envelope structure



Steel cable net system

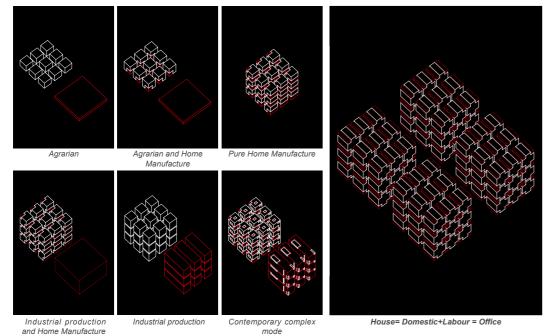


Perspective Section B

03:Urban House Barras Artist Apartment – Barras 艺术家公寓

"This architect serves not only as an apartment, but also as a home office and a space for social interaction among individuals."

> Glasgow school of Art Academic Work - Stage4 Sketch up, Autocad, illustrator, V-ray and Photoshop Carried out date: December 2020 Individual Work



In the future, the distinction between domestic and labor areas may become indistinct, with their identities blurred. Residential buildings will resemble office buildings, with work areas adjacent to or integrated within domestic spaces. Domestic and labor areas will thus become two facets of a household, connected through shared and interactive spaces that foster communication and relationships among individuals. Such housing models could serve as a means of supporting social interaction and interpersonal connections.



One bedroom apartment 2#



Three typical house type







8



11

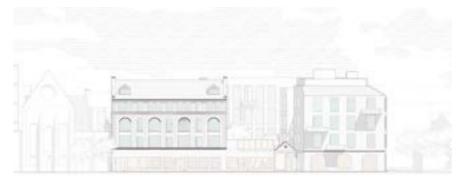
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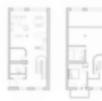
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Existing historic building

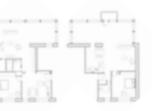
The Artist Restaurant is a venue where artists and citizens can congregate to enjoy shows and engage with each other. This establishment serves as a communication hub, attracting individuals to the center and providing them with a space to rest and unwind.

Λ.

Perspective Section A

Perspective Section B

Elevation A



One bedroom apartment1# 2#



One bedroom apartment 3#

House types

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Two bedroom apartment



Two bedroom apartment





View of the Private Garden



View of the Center Restaurant



The living room and work areas are designed to interact with each other, with flexible facilities that allow artists to adjust their own workspaces and create multiple configurations. This design approach provides a range of possible options for the utilization of space.

View of Three bedroom apartment





View from east side

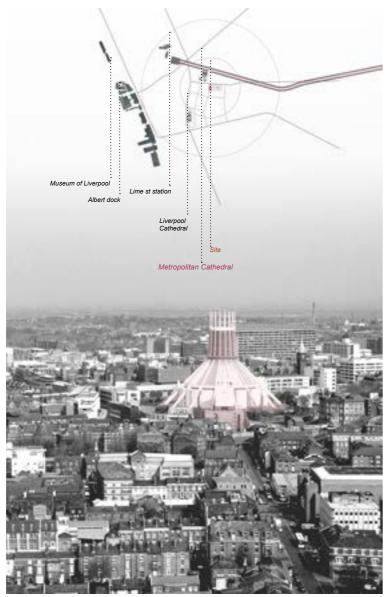
View of Two bed room Loft

04: A DANCE SCHOOL IN LIVERPOOL BAROQUE DANCE HOUSE – 巴洛克舞室

"What Could We Learn from Baroque Architecture ?"

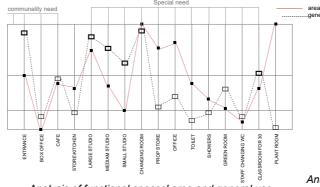
University of Liverpool Studio Academic Work - summer 2017, Year two Sketch up, Autocad, illustrator, V-ray and Photoshop Carried out date: December 2017 Size: 1900 sqm Individual Work

The design brief calls for the creation of a dance school in Liverpool, with an emphasis on integrating Baroque elements into modern architecture. The challenge is to infuse the space with classical elements that express modern design concepts.

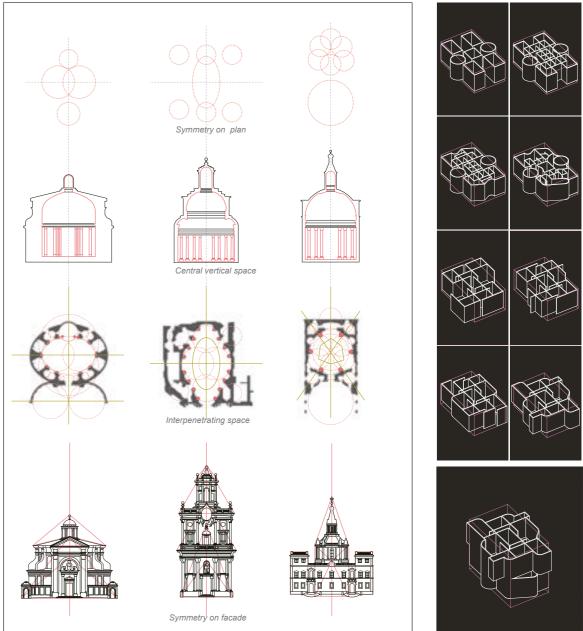


Site Analysis

The site for the proposed dance school is adjacent to the University of Liverpool and is in close proximity to several notable historical buildings. Of particular significance is the Metropolitan Cathedral, situated in the immediate vicinity of the site. Its monumental and symmetrical character renders it the iconic symbol of the city of Liverpool.



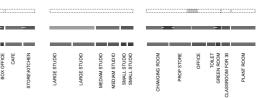
Analysis of functional spaces' area and general use Spaces with larger area and higher utilization rate will be planned around the building center, while Spaces with lower utilization rate will be further away from circulation



Before the baroque era, ballet was not a professional art form. With the development of baroque opera, ballet has become the most brilliant pearl of art in that era

Baroque Study

Symmetry, interpenetrating space, dome, and column are key features of Baroque architecture, defining its unique aesthetic and design principles. These elements are commonly utilized to create dynamic spaces that evoke a sense of grandeur and drama, with a focus on ornate detailing and elaborate ornamentation.

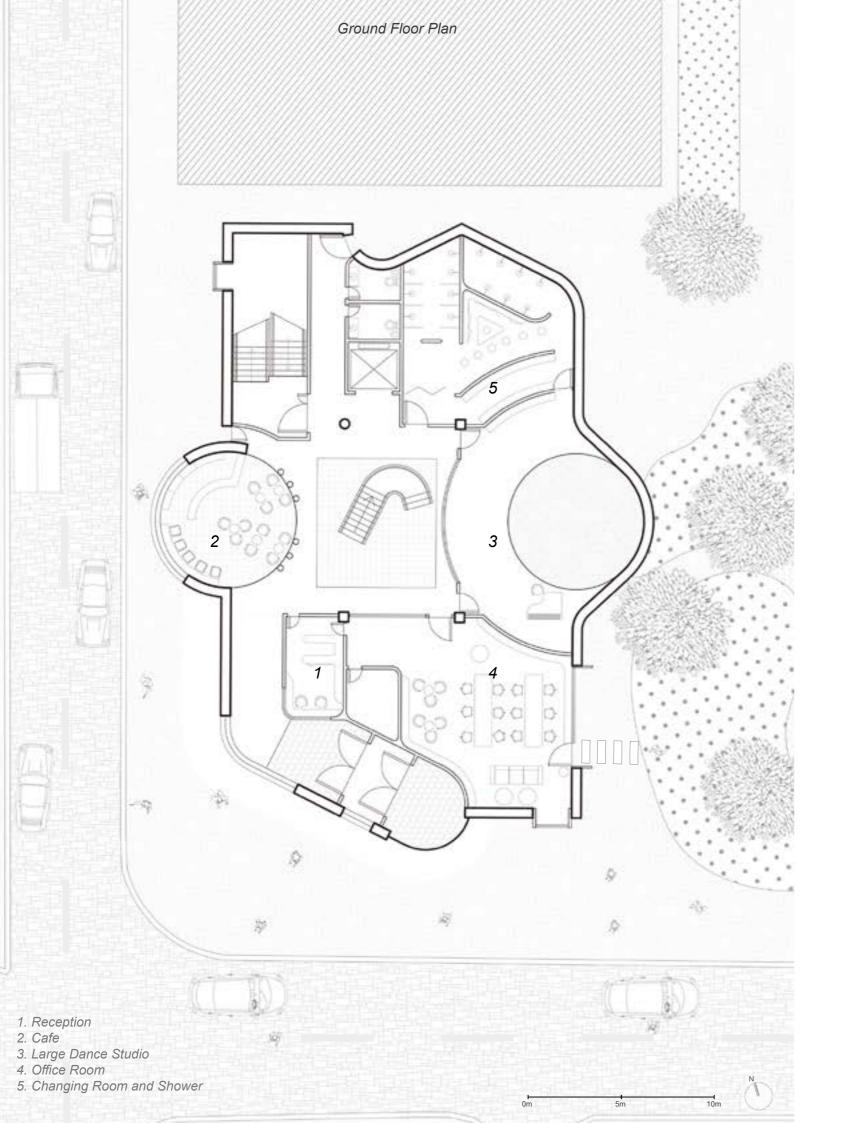


Analysis of infiltration possibilities for different functional spaces

Spaces that can be seamlessly integrated with each other are planned in proximity or connected via circulation paths. Through a thorough analysis, highly correlated spaces are grouped together. In the subsequent planar organization, distinct areas within the building are assigned to their respective groups.

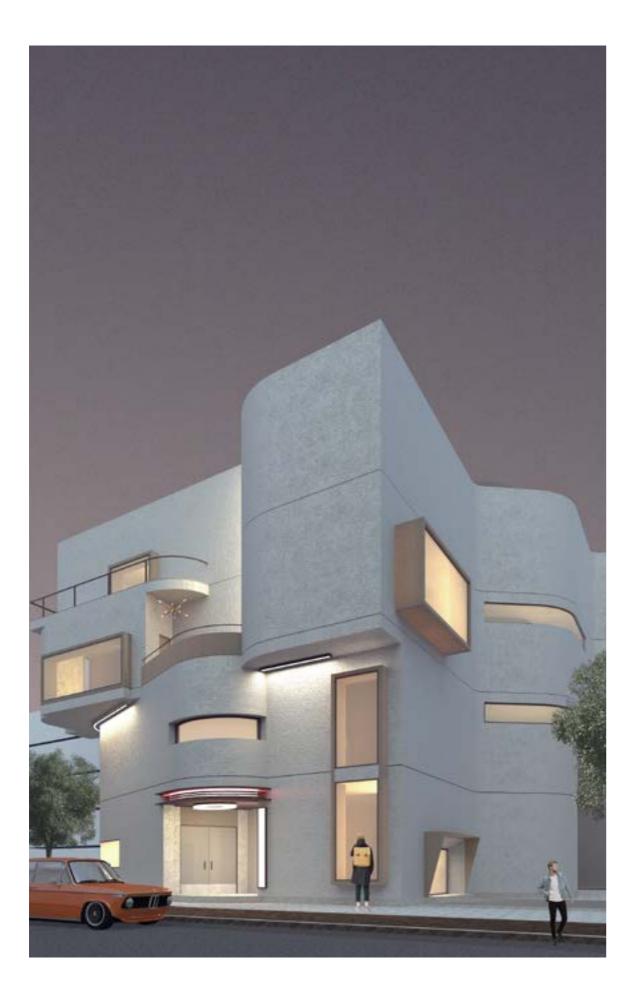
Design Process and Analysis

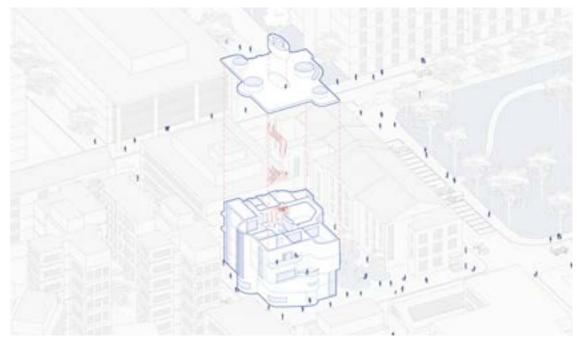
Based on the dimensions of the site, multiple symmetrical spaces were created through a combination of rotating, cutting, mirror transformation, and axisymmetric transformation. These spaces were then integrated into the final massing design to achieve a cohesive and harmonious composition.



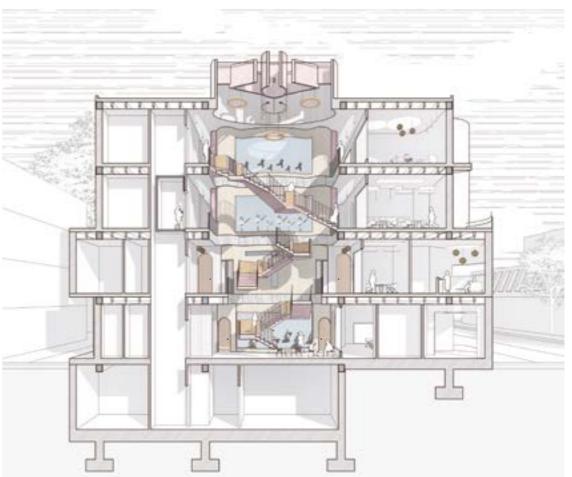


Drawing inspiration from Baroque architecture, the design of the space and walls utilize rotation, symmetry, and axisymmetric techniques to create a sense of symmetry and balance. The central circulation system leads to a central courtyard, while the interpenetrating space houses a café, circulation area, and rest space. Through a thorough analysis, spaces with high utilization rates, such as the coffee shop and studios, are strategically arranged on both sides of the building's central axis. Spaces that have a spatial infiltration relationship with these areas are placed in proximity, utilizing them as reference points.





Axonometric Diagram



Section Perspective The large dance studios, located adjacent to the central circulation system, feature expansive windows that provide ample natural light. These studios double as performance stages, allowing students and staff to observe the dance classes from the vantage point of the central staircase. This design element enhances the sense of community and interaction within the building, fostering an environment conducive to the development of artistic talent.



05: SHELTER AND HOSPITAL FOR PETS IN LIVERPOOL MERSEYSIDE PET'S HOME – 默西河畔宠物之家

"Pets' Home and A Methodic Shelter Design"

University of Liverpool Studio Academic Work - Year two Sketch up, Autocad, illustrator, V-ray and Photoshop Carried out date: June 2018 Size:more than 2000 sqm Individual Work

The design brief calls for the development of a pet house in Liverpool that serves a three-fold purpose: to provide shelter for homeless dogs, a hospital for pets, and a community center for pet owners in the area. The pet house is envisioned as a residential building, with each pet having their private space and neighbors, ensuring a comfortable and secure living environment.



Design Process and Analysis







and visiting dog house

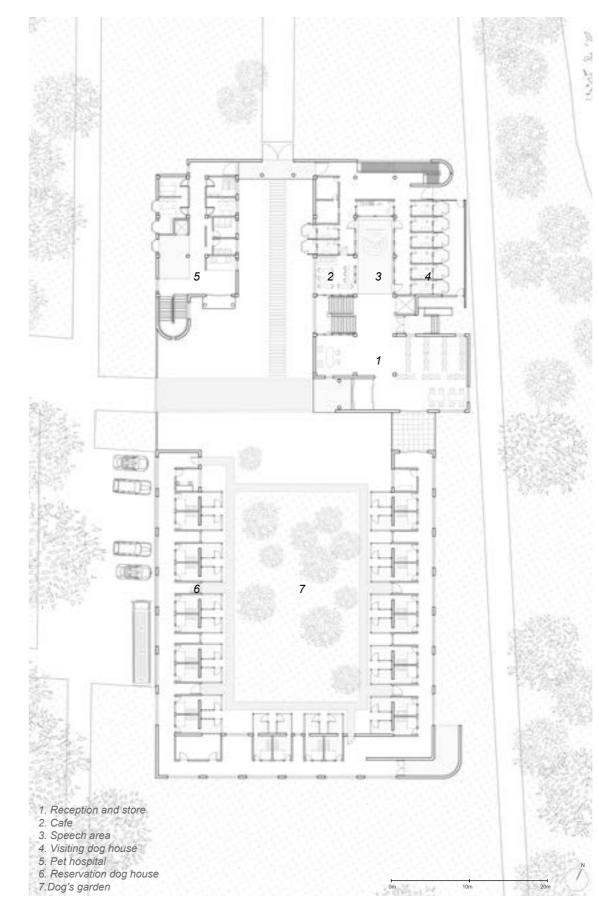




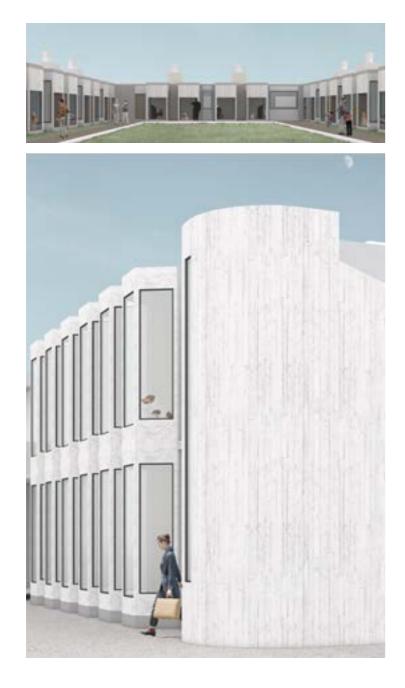




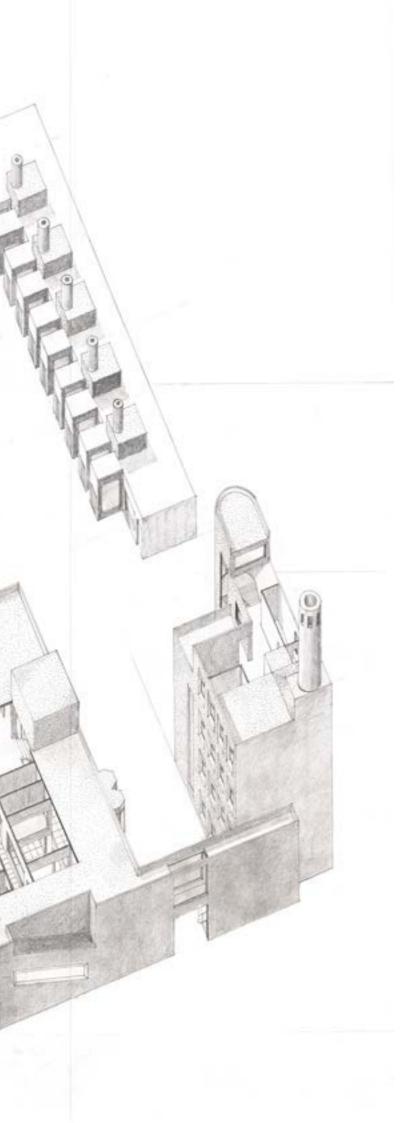
Visiting area and pet hospital are on the north side, reservation dog houses with a dog walking gardeng are on the south side, which are for injured, homeless and special care required dogs.



Ground Floor Plan



There's a corridor that connects the pet hospital and the dog adoption area. The adoption area has chimneys to keep it wellventilated. The hospital has a big chimney for safely disposing of medical waste.

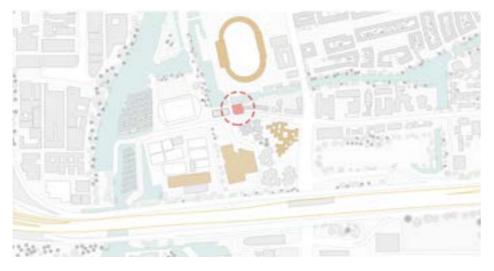


06: PUBLIC BATH IN AMSTERDAM THERMAL AMSTERDAM – 【热汽】阿姆斯特丹

"Public, Atmosphere, Traditionalism and Modernism"

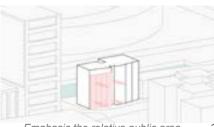
University of Liverpool Studio Academic Work - Year three - spring 2019 Sketch up, Autocad, illustrator, V-ray and Photoshop Size: more than 2000 sqm Individual Work

The design brief calls for a bath in Amsterdam that seamlessly integrates the city's local architectural style with modern elements, while also creating a distinct atmosphere within the building.



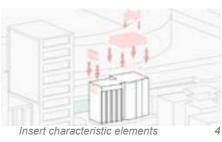


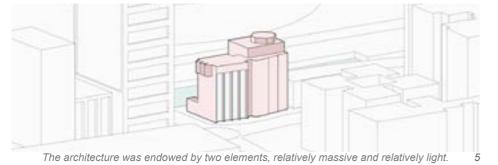
The architecture mass shaped by site

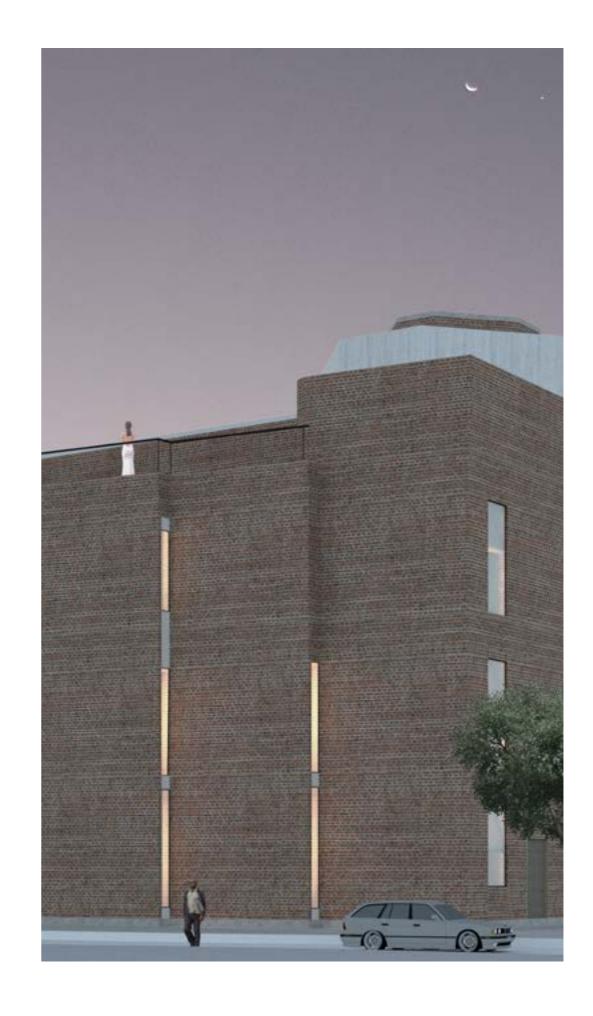


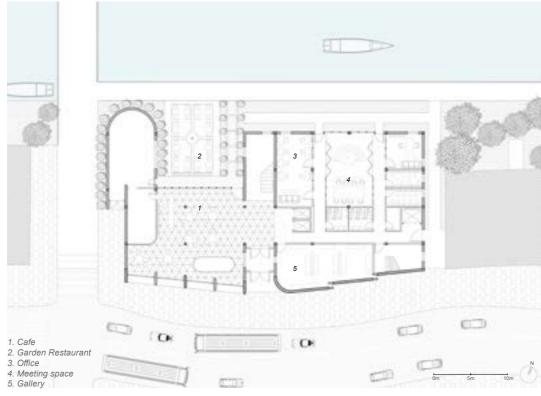
Emphasis the relative public area

Create openings







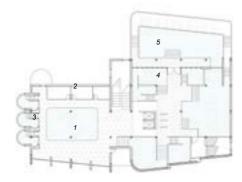


Ground Floor With Context

On the ground floor, a coffee shop with a large opening welcomes visitors. The restaurant on the garden provides a public space and a connection with the canal for customers. The gallery and office area are located on the east side.



BASEMENT FLOOR 01 Water tank 02 Plant room

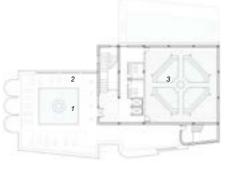


SECOND FLOOR

01 Indoor main pool 02 Massage Room 03 Water treatment room 04 Special pools 05 Outdoor cantilever pool



FIRST FLOOR 01 Waiting area 02 Reception 03 changing room 04 Sauna room 05 Shower room



0m

THIRD FLOOR 01 Outdoor pool 02 Outdoor rest area 03 Special pool

10m

20m



07:Urban Acupuncture New Govan central street – GOVAN 新中心

"The aim is to revitalize Govan's city center by reconstructing the ground floor and utilizing urban acupuncture to make targeted interventions in the city's fabric."

Glasgow school of Art Academic Work - Master of Architecture (by conversion) Carried out date: January 2023 Rhino, Autocad, illustrator, V-ray and Photoshop Individual Work



In the 1950s, Govan was a bustling street with a variety of businesses. The shipbuilding industry was particularly strong, contributing to the area's prosperity. The majority of local residents were workers, and public spaces such as theaters were integral to their daily lives.

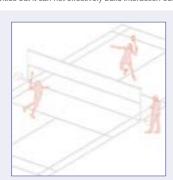
Thriving Govan 1950s

Compare Govan with Finneston

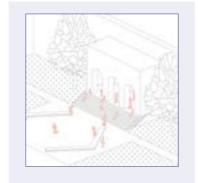


Govan - Govan was famous for its parish, the history has been more than 1500 years. The church can provide space inside for people's activities but it can not effectively build interaction outside.











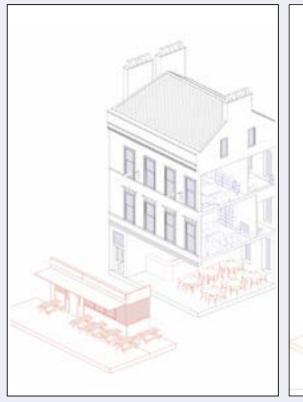
Finneston - Because of the heritages' renewal, citizens can easily enjoy their life in different community spaces such as sport hall and museum. In addition, these community spaces can also active the outside space.





Govan - need better facilities to support citizens daily life.

Construction Model -- House+business in tenement

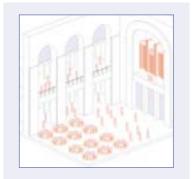


Govan - generally, the groundfloor space for business is not so roomy, because takeaway restaurant and cantten do not need space for customers to stay, in this way, people in Govan have less chance to communicate or state of the space for customers to stay in this way, people in Govan have less chance to communicate or to stay. build more connection for this district.



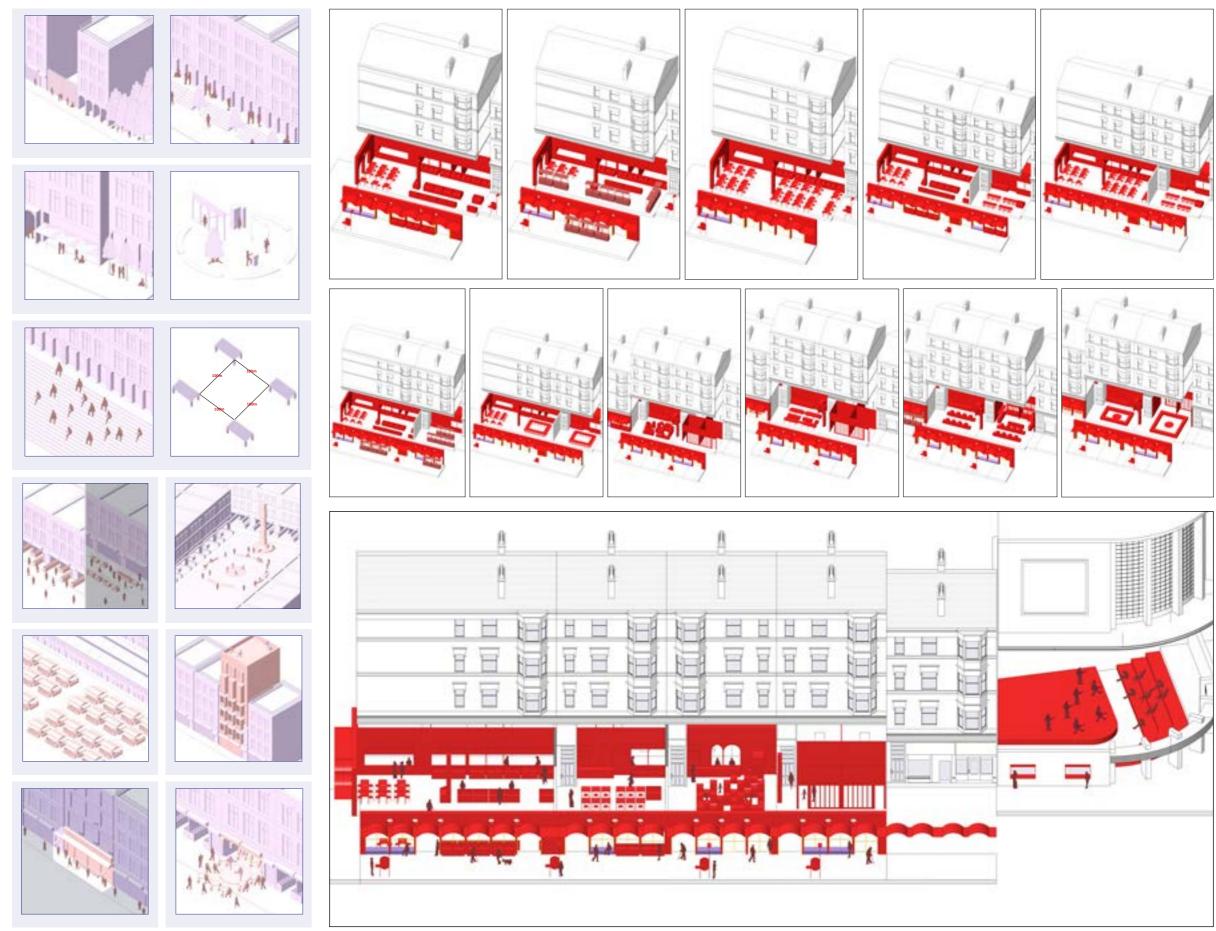






Finneston - The kelvingrove park act as a huge outside community park to support people's activities. Outside facilities are helpful to improve people's happiness





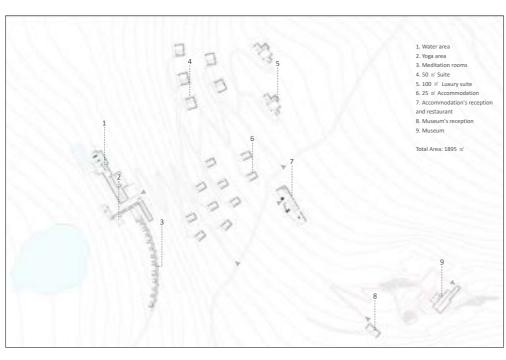
Precedent and case study of Urban Acupuncture

The Final Proposal, implemented gradually in stages.

08: RECONSTRUCTION OF A MINE IN ALLIHIES, IRELAND TO「MINE」 – Meditation Hotel – 寻【己】冥想酒店

"Connect with nature and return to nature" Architectural Competition Work - Summer, 2022 Rhino, Autocad, illustrator, V-ray and Photoshop Position: Team leader Team Members: Biaotong Geng, Tingyu Ouyang, Xinchun Li.







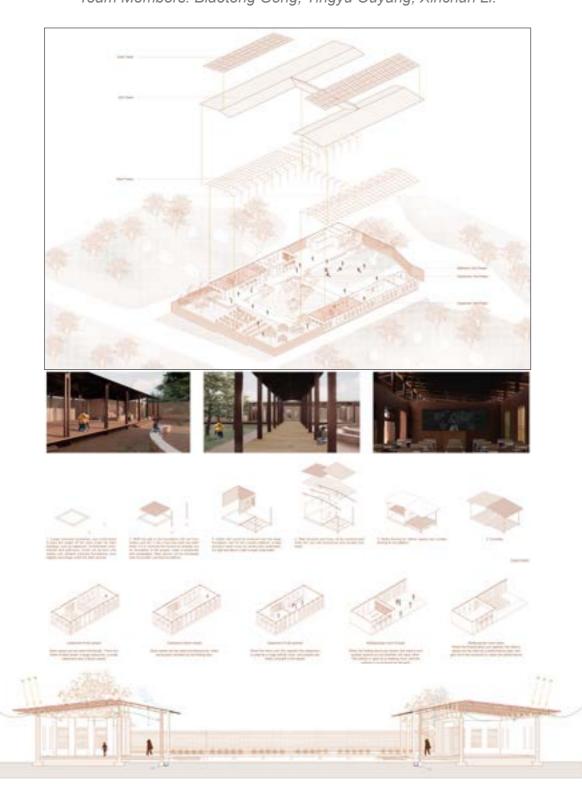






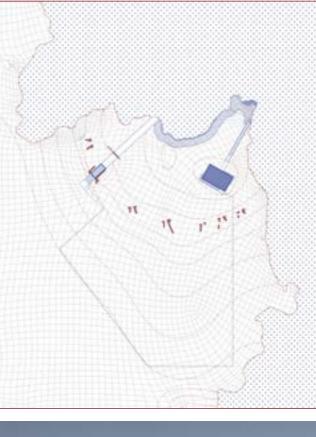
09: SCHOOL AND SHELTER FOR GIRLS, The Republic of Mozambique UNDER THE TREE – 【树荫】女子学校

"Under the tree, where the laughter spread, and where love sheltered, we are going to build a convivial and warm shelter for the ladies" Architectural Competition Work - Summer, 2022 Rhino, Autocad, illustrator, V-ray and Photoshop Position: Team leader Team Members: Biaotong Geng, Tingyu Ouyang, Xinchun Li.



10: RECONSTRUCTION OF 'NOSSA SENHORA DA LUZ', PENICHE Shelter 'Nossa Senhora da Luz' Fortrees – Fortrees 观景塔

"A proposal connect history and nature" Architectural Competition Work - Winter, 2021 Rhino, Autocad, illustrator, V-ray and Photoshop Position: Team leader Team Members: Biaotong Geng, Xunxi Wu, Qishen Cui





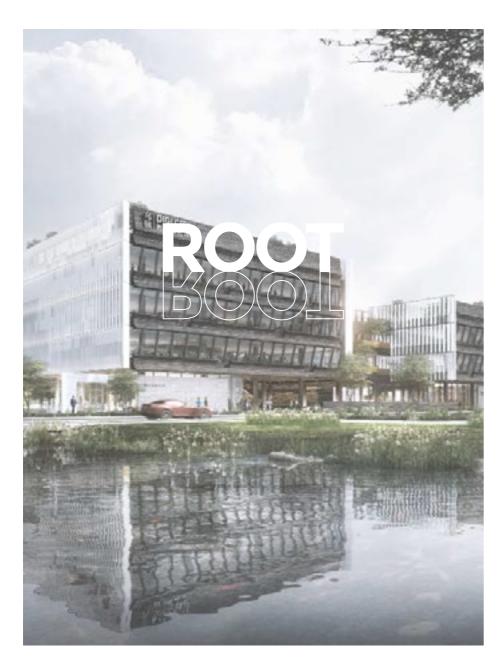


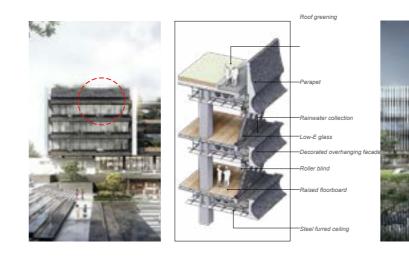
11: Professional Works

WUZHEN DIGI CITY – 乌镇信息中心

A urban complex project for digital commerce in Wuzhen, China

MR. Modern Architects, Professional Work - December 2019 Exact contribution: research, 3D modelling, renderings Team Members: Liang Ma, Wenjun Wang, Lixue Cheng, Fengmao He, Biaotong Geng







Square's Internal view



This project design dased on Wuzhen's traditional waterside culture, combine with advanced technologies, provide a public open ppark for citizens, which would be the center of Wuzhen in the future.







SHANGHAI OLD WHARF'S RECONSTRUCTION - 上海老码头复兴五库改造

Location: Shanghai China MR. Modern Architects, Professional Work - November 2019 Individual Work



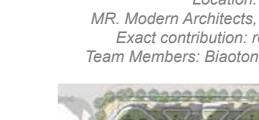
The site is situated on Shanghai Old Wharf, formerly the most thriving trading port in Shanghai during the last century. The three warehouses on the site were once owned by a trading company in Shanghai. Due to the decline of trade, they were eventually abandoned. Now, there is a need to repurpose the three warehouses into public open spaces for the local community.



Parent-child cafe

A coffee house with an indoor playground for children, providing a space for parents and children to engage in meaningful communication.







Haian city, known for its rich seafood and agricultural products, provides an opportunity to design a commercial area inspired by the shape and texture of shells and pearls. The building's form can be influenced by these natural elements, creating an organic and visually appealing structure that blends in with the surrounding environment.



The Zhongyang building is a renowned golden structure in the local area, representing prosperity and influence. The sphere theater, on the other hand, embodies the pearl's characteristics, such as delicacy and romance. The combination of these two structures creates a new city landmark for Haian.



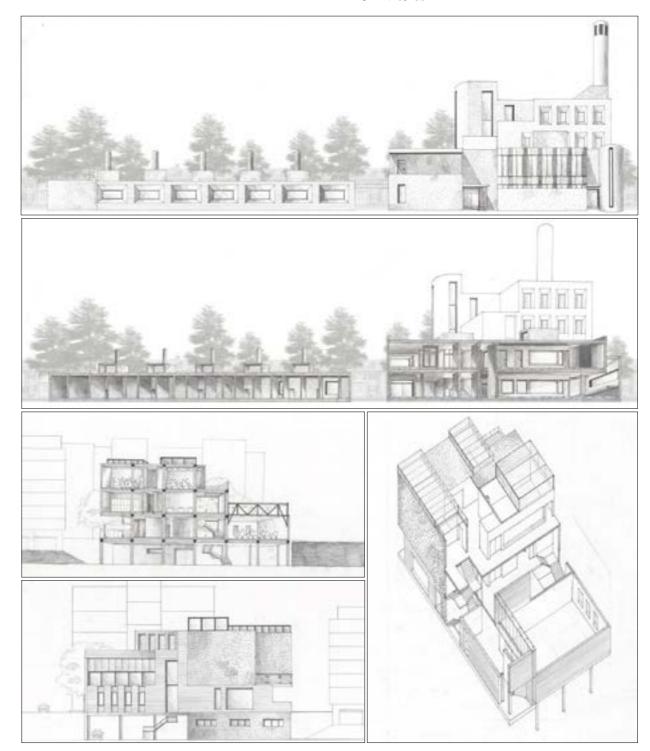
zhongyang plaza's conceptual design and urban design - 中洋广场概念设计及城市设计

Location: Haian, Jiangsu, China MR. Modern Architects, Professional Work - December 2019 Exact contribution: research, 3d modeling, renderings Team Members: Biaotong Geng, Xiaochen huang, Siyu Zhang

12: Other Works

Hand Drawing - 手绘作品





Photograph 摄影作品

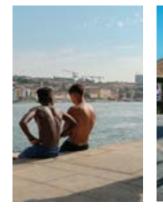




















The way I record and research the relationship between human beings and space.