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jingwei WU

2024

Portfolio

selected architectural works

Columbia , GSAPP Pratt Institute , SOA Participated Professional Projects +



" Content "

jingwei WU

Contact Information

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SKILL

Skills

3D digital modeling 3D print Operating skills physical model making ability 2D drawing and Rendering VR/AR scene creation architect practical experience

Software

Adobe Set Photoshop/ Illusrator/Indesign 3D Modeling tools Rhino/Maya/Blender Render V-ray/Maxwell BIM(building information modeling) Revit/Auto Cad Game Engine Unreal/Unity Programing Python/Grasshopper w Rhino

Language

English

Chinese

EXPERIENCE

• 2021-2023

Designer Woods Bagot interior and architectural designer.

2019-2021

Junior Architect Wid Chapman Architects Projects are mainly located in New York City area, including commercial and residential projects.

2018

Intern Architect Kohn Pedersen Fox Associates

Worked for 4 different projects in various stages. Made VR demostration test demo for clients, and material booklet for construction document set.

2018

Research Assistant Pratt Institute/ Japan Travel Studio

2017-2018

Research Assistant Pratt Institute/ Center of Experimental Strucutre

2016-2017

Research Assistant / Teacher Assistant Pratt Institute / Gaming Architecture

EDUCATION

• 2023-2024

Advanced Architecture Design GSAPP, Columbia University

• 2021 MIT x PRO (certificated program) Virtual Reality and Augmented Reality

2014-2019

Pratt Institute/ School of Architecture Bachelor of Architecture

Academic Projects 1 $\mathbf{01}$

EcoHub

Grown from Within

Airea III

Rikers Marsh

Kensington Stable

Professional Works

Dhamaka

World Spa

Emmons Hotel

Interior Snapshots

Manhattan Residence

Participated Architecture Projects

END

02

P 4

P 60

P 68



Studio Kingsbridge Armory Refurbishment Design

Critic: Lawurie Hawkinson / Academic Partner: JJ Zhijie Jin

What if the Armory, currently a monolithic shell blockading communities around it, became a social emulsifier, drawing in diverse communities through a mission of both service and economic growth? In our proposal, the headhouse serves as a career and business incubator, becoming an economic engine that weaves its reach through the armory and extends to the greater neighborhood around it. Spaces within the incubator partner with other programs in and outside the armory, becoming a symbiotic catalyst for community members to not just find jobs, but further their careers.

▼Street Vendors





Axon-Sectional



- Atrium Resting
- Sectional Axonometricial Diagram
- ▼ Program Schedule Heat Diagram





▲ Warer Pool



The latter serves as a hub of commercial activity, hosting an array of shops and restaurants, and is notably marked by the presence of an existing subway entrance. This vibrant area is further defined by the front brick head house, which stands as a focal point of interaction and commerce. The design proposes an innovative integration of street vendors into the market area by opening up the existing fences, thereby creating a more inclusive and dynamic commercial space.

The architectural design is strategically oriented to prioritize two central spaces: the Market and the Open Theater. These pivotal areas are seamlessly connected through a ramped circulation system, which facilitates the movement of visitors across various levels, enhancing the overall navigational experience within the structure. Notably, the design exhibits a deliberate contrast in the ambiance of different sections; the West-North side is characterized by its tranquility and quietude, starkly differing from the bustling nature of the South-East end.



▲ Street Scale

▲ Gesture Diagram

✓ Interior Renders







Through the introduction of a secondary circulation layer, crafted from semi-transparent materials, additional spatial volume has been ingeniously incorporated within the headhouse's interior. Concurrently, this design intervention has facilitated a comprehensive refurbishment of the facade, particularly addressing the previously bulky and visually dominant brick front. This strategic incorporation of light-permeable elements not only enhances the spatial dynamics within but also significantly transforms the external aesthetic, imbuing it with a sense of modernity and openness.



- ▲ West-East Section
- North-South Section





▲ North-South Section 1



▲ North-South Section 2







▲ Program Blocking Diagram

ullet Presenting the design with Congressman, Adriano Espaillat Dean of GSAPP, Andrés Jaque President of Columbia, Minouche Shafik



✓ Model on GSAPP Exhibition "Extreme Scale"





▲ Model - South View

▲ Model - South View



▲ Model - Inner East View





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Grown from Within

OPEN studio Design

Critic: David Benjamin Academic Partner: Taha Erdem Özturk

Our project is located in a small agricultural community in India's Punjab region, a state that's well-known as the agricultural hub of the country especially in terms of rice and wheat production. "Growing from Within" directly addresses the critical issues of mass-production and agricultural waste that's created as a result of this, which is the single most reason behind heavy air pollution in many cities due to burning of the stubs and other leftover by-products. Our project harnesses novel AI methods for analysis, and generative techniques for discovery of new material compositions and "recipes" that reutilizes waste into various construction and production related materials; from bricks to textiles, to prevent heavy carbon emissions and air pollution, as well as empower these communities with more diverse forms of societal contribution and production.



Brick Mixture Experiments

mixture manual

Ingridents Dry Mix







Ingridents



g. Rice Husk

h. Rockite Cement

▼ Brick Mix 1:8

▼ Brick Mix 1:1







3

7





2



6









i. Sand









8

- 1. Plaster + Rice Husk + Straw + Rockite Cement
- 2. Clay + Alginite + Rice Husk
- 3. Quickrete + Plaster
- 4. Bio-Resin + Rice Husk + Straw
- 5. Plaster + Husk + Straw + Rockite Cement
- 6. Resin + Rice Husk + Straw
- 7. Clay + Rice Husk + Straw
- 8. Plaster + Rice Husk + Sand









▲ Sequencial Development Roll









Harvest to Construction

sequencial diagrams

29 |||||||||







L.A. FUTURE PUBLICS

Airea III

Studio Kingsbridge Armory Refurbishment Design Spring 2019 Critic: Evan Tribus , Cath Dwyre / Academic Partner: Chelsea Yunwei Dan

WELCOME TO AIREA III

Q





37 11111111

DESTINATIONS



Accelerating Future

L.A. was ought to rethink the importance of public transit, combined with the characteristics of a multi-center, decentralized urban structure in Los Angeles.

On one hand, the research is focusing on the accessibility of public space under high-level motorization to have a deeper understanding about the problems that we may face and to solve. On the other hand, it is the constructing the socio-political framework for the degree project, investigating the political expression of space segregation/mobility.

SHOW MY LOCATION

SHORT-HAUL FLIGHTS

MALIBU

8

LONG-HAUL FLIGHTS

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Third Space and Transportation

Ray Oldenburg first pioneered the concept in The Great Good Place, 1989, in which he explains that your third place is a hangout spot, community center or "home away from home" that provides an essential zone outside of home and work. According to his observation, most American cities are lacking third places, which means that they are missing out on a crucial space of expression, connection and growth. In combining Oldenburg's theory of the "third place" and the technical research of eVTOL(electrical Vertical Take-off and Landing aircrafts), we are integrating public spaces in to the transportation infrastructure, which in the public common sense is featured by large interior spaces for the gathering of the busy crowds. None of the Trans-hub landmarks in NYC, like Fulton Street Station, the Oculus(WTC) and the Grand Central doesn't own a clearly defined boundary. Either shielded by walls or a structured skin, the hub is separating the undercurrent of commute population from the street population, where people without a destination is not welcomed, or either feeling oneself lost in the bustling crowds. Thus, we are also interested in eliminating the frontier of a transportation hub and rebuilding the ambiguous boundary of public space as a third place of leisure and happiness.

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study

aviation

landscape method

Unit Diagrams

PROGRAM CATALOG: AUTOMATED AIRCRAFT CONVEYOR SYSTEM



Physical Models



site model



sectional model

eVTOL Hub at Santa Monica



bird view

45 1111111

unit types





Public Space

Space is built for public use that is interlaced with the industrial pads system. the function serves the community, such as commercial space, educational rooms, and natural walking parks. It made the infrastructure provides destination and grouping nodes for the public.

Green Roof

Most areas are paved with solar energy panels used as charging power for eVtols. And the rest gives a comfortable resting green spot in the urban area.

Mobile eVTOL Pads

Including garage storage, repair shop garage, and transportation tunnels underground. Not only a stop but an enhanced complex facility for the electric vertical take-off and landing aircrafts(eVTOL)



bird view 1

commercial bridge

bird view 2



section 1





Rikers Marsh

Rikers Island Refurbishment Planning and Bird Observatory Fall 2018 Critic: Enrique Limon





Rikers Island Map

The Buffer Between the Artificial and Natural Ecosystem

Rikers island is often known as the "dirtiest" spot in New York City. Rikers Island prison is sitting on this island, which is built more than 70% by trash dump. it emitting testified biological and chemical harmful gas and receiving the noise, wastewater, and trash dump at the same time.

This project contained two parts, one is the masterplan for abandoning Rikers Island and a detailed migratory bird center on its neighbor island.

providing an eco-friendly buffer, let time and artificial intervention to create an eco-friendly marsh buffer for humans and nature













- 1. LGA airport aviation route analysis diagram
- 2. Water plant impact radius diagram
- 3. Historical growing map
- 4. Trash dump spots radius diagram
- 5. Flood map
- 6. Noise impact diagram and prision plan

- 7.Existing Massing vs Noise Impact
- 8. Existing Massing vs Topography
- 9. Existing Massing vs Marsh Growing Poetntial

10. Existing Massing vs Existing Natural Elements

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site analysis drawings are created based on different acctraction points and impact spots on site

generated density line drawings generated based on existing site condition under various impact.

SITE ANALYSIS

Rikers Marsh

from the Stinky Prison Island to A Natural Habitats with **Institional Facilities**

Rikers Island currently functions as a prison island. A landfill island surrounded by not welcoming environments, such as the airport's noise,

water treatment factories, and dumpster nodes. This project aims to transfer the landfill island to a natural salt marsh with a landfill gas collecting system, upgrade this unwelcome island to public salt marsh habitats for not only human beings but also the animals and plants





Woody Glasswort Beach Tea FIELD DAT Aviation Flights Landfill Gas Birds Watch Landfill



Grass Shrimp American Eel Mosquitofish Gulf Killifish











Hermit Crab



Horn Shell



Mussel



Education Center for Public education and marsh eco system study













11111111 56

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▲ Floor 2 Plan

Kensington Horse Stable

Kensington SOIL Design Studio Summer 2023

Critic: Mio Tsuneyama / Fuminori Nousaku



▲ Physical Model





Arch

World Spa















"Professional Works"







Arch Emmons Hotel

Arch Interior















1. Lefrak City Lobby



2. Kirkland & Ellis D.C interior



3. LiveRamp New York

"Professional Works"









4. Symphony House

Arch

Downtown Apartment

Location New York, NY

Date 2021















W. 14th STREE

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"Professional Works"







Arch Participated Architecture Projects



5





"Professional Works"

1. Bund Fosun CenteWuhan by Kohn Pedersen Fox

2.Chongqing 100 by Kohn Pedersen Fox

3.Park Hyatt Suzhou by Kohn Pedersen Fox

4. Emmons Hotel by Wid Chapman Architects

5.Barn House in New York by Wid Chapman Architects

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71 |||||||||