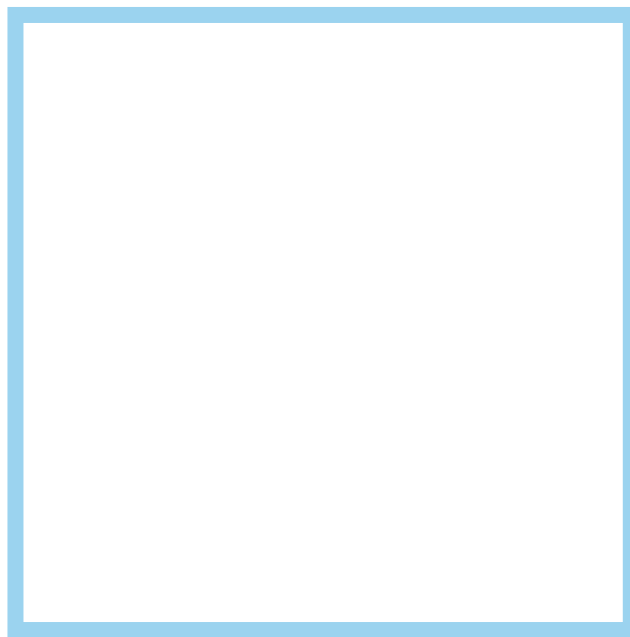


# Portfolio

Marcel Breuer Doctoral School  
Faculty of Engineering and Information Technology  
University of Pécs



HUANG ZhenKai  
2018 -2022 DLA in Architecture

# Contents

## Architectural Design ( 1-5)

Architectural Design of the Reception Building of Wuhan Sports Center( Competition)

Landscape Tower Design

MengLanXuan Villa No.10 Transformation

18 ° Gray homestay inn design

Huanghu Village Homestay Inns Design (Masterpiece)

## Interior Design (6-9)

Gubei Yunzhu Homestay Inn Design-Yunzhu Yard

Insulation & Monitoring Laboratory Design Hubei University of Technology

Damei Dental Clinic Outpatient Department Design ( The Second Branch)

Damei Dental Clinic Outpatient Department Design ( The Third Branch)

## Exhibition Design (10-12)

Conference Site Design of the 2nd China Nature Education Symposium)

2019 Wuhan Design Day and the 5th Design Biennale Exhibition Hall Design

2021 Wuhan Design Day and the 6th Design Biennale Exhibition Hall Design

HUANG ZhenKai

2018 -2022 DLA in Architecture

# Architectural Design

## Architectural Design of the Reception Building of Wuhan Sports Center( Competition)

HUANG ZhenKai, XIONG Wei, HE MengMeng



Rendering of the Building Entrance, July 2017

Wuhan City, Hubei Province, China

Third Prize, November 2019

1.



Certificate of Third Prize, November 2019

The First Wuhan Creative Design Competition theme in 2019 is "Exquisite Urban Creative Space." It is hosted by the Wuhan Municipal People's Government and jointly undertaken by the Wuhan Urban and Rural Construction Bureau and the Wuhan Municipal Construction Group. It aims to make Wuhan the urban public space construction and design capital. Combining construction, emphasizing the participation of the whole people, using the international platform of the UNESCO Creative City Network to achieve global dissemination, better publicize the urban construction design culture of Wuhan, accelerate the construction of Wuhan's world-class creative city, and strive to write a new era of Wuhan A new chapter of high-quality development.



Rendering of the building corridor, July 2017



Rendering of the building corridor, July 2017

The architectural design is inspired by the curved roof overhangs presented in a modern form—transparent glass through the building corridor. You can see the simplified wooden structure of traditional Chu buildings in the interior of the building and the corridor. Strive to combine tradition and modernity perfectly. The integration of the old and the new, the traditional and the modern, the indoor space and the outdoor space of the building, and the fusion of light and shadow allude to Wuhan's open and inclusive mind to welcome friends from all over the world.



Rendering of the building corridor, July 2017

**PROJECT**

Wuhan Stadium Extended Vip Architecture & Landscape

**LOCATION**

Zhuankou Developed Area, Jiangxia District, Wuhan, Hubei Province

**DESIGN TEAM**

XIONG W.  
HUANG Z.K.  
HE M.M.

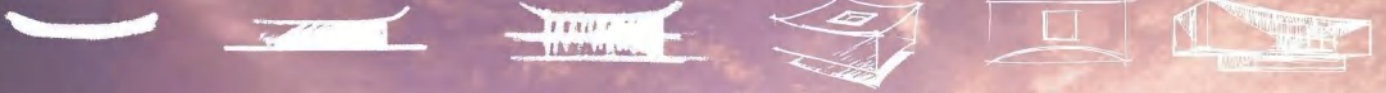
**PROJECT YEAR**

2017

**CLIENT**

Wuhan Sports Center

# FUSION



Poster, July 2017

# Architectural Design

## Landscape Tower Design

Bidding Plan

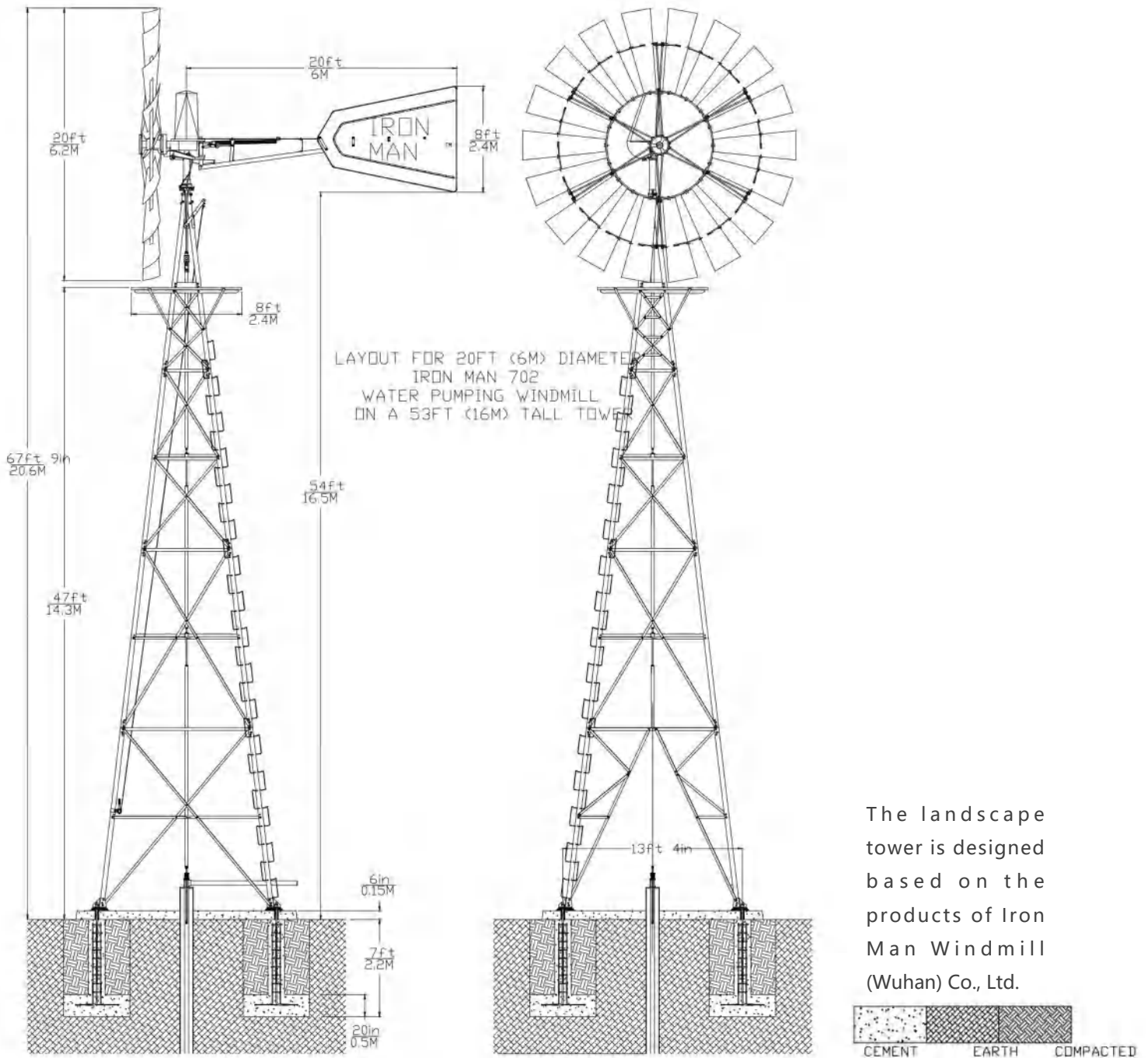
HUANG ZhenKai, CAO Hui



Architectural Rendering, September 2020

Zhangjiakou Yanghe New District, Zhangjiakou City, China  
Selected, But The Plan Did Not Materialize, October 2020

2.



The landscape tower is designed based on the products of Iron Man Windmill (Wuhan) Co., Ltd.

Original Technical Data of Windmill, September 2020

This landscape tower design is part of the Riverside Landscape Belt in Zhangjiakou Yanghe New District. Zhangjiakou New District is located on the south side of Zhangjiakou Old City. The new district is positioned as a "new ecologically vibrant new city in the northwest of the capital."



# Landscape Architecture



Aerial View of Landscape Tower, September 2020

The design concept of this scheme is derived from several forms of water. The tower body uses many curves to express the softness of the water, and the hollowed-out appearance shows transparency and agility. The overall white and blue design gives the impression of ice and snow, catering to the Winter Olympics theme. Through the difference in color and lighting, the upper and lower ends of the tower and the three platforms surrounding the tower imply the five Olympic rings. There are different natural landscapes below the platform, and the mirror stainless steel gives visitors a feeling of being in nature.



Rendering of Landscape Tower at Night, September 2020

# Architectural Design

## MengLanXuan Villa No.10 Transformation

Private Residence

HUANG ZhenKai, LIU WuXi



Building Exterior During Construction, February 2022

Jiang'an District, Wuhan City, Hubei Province, China

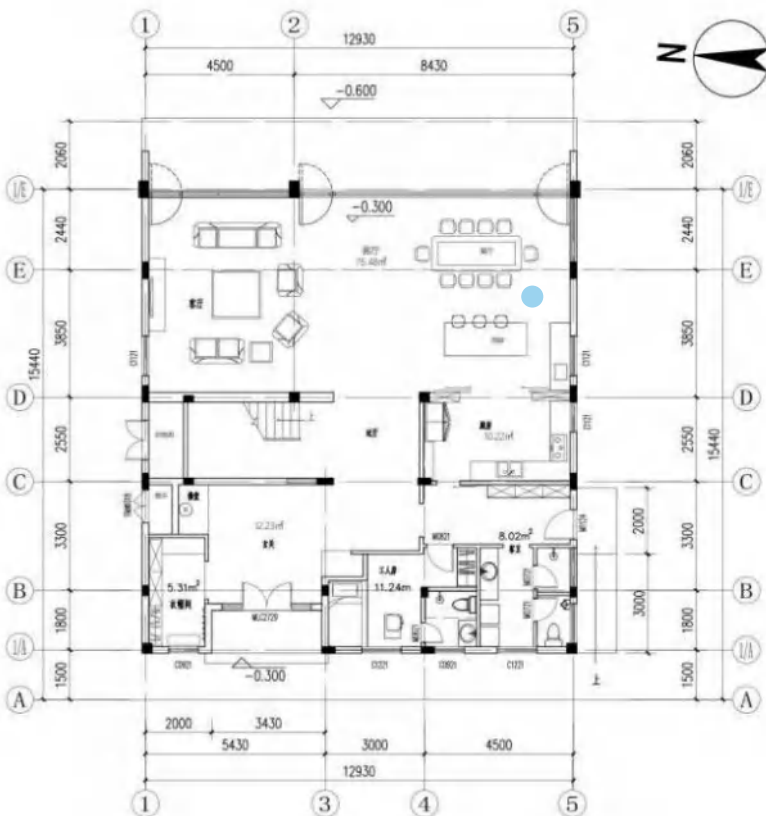
Under Construction, July 2021

# 3.

# Private Residence



Living & Dining Room Renderings, July 2021



Ground Floor Plan, July 2021

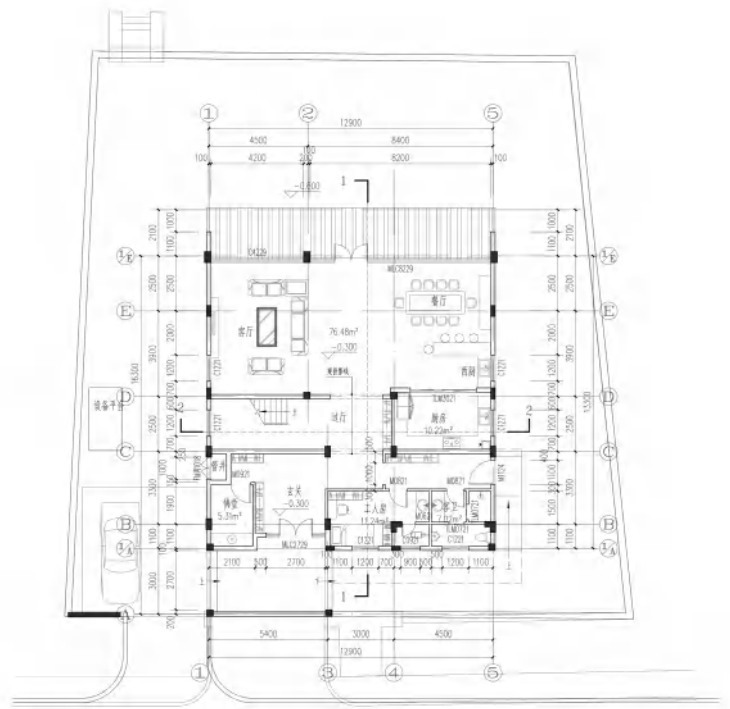
This project is located in Jiang'an District, Wuhan City, China. The total design scope is 590 square meters, of which the construction area is about 200 square meters. The landlord was not satisfied with the structure and layout of the original house, so he decided to remodel it. In the three-story building, the interior style adopts the new Chinese style. Floor-to-ceiling windows are also used in the guest and dining rooms on the first floor, and the landscape in the courtyard can also be felt indoors.



Under Construction, February 2022



Under Construction, February 2022



Ground Floor Plan, July 2021

# Architectural Design

## 18 ° Gray homestay inn design

Rural Homestay Inn Design

HUANG ZhenKai, CAO Hui, PAN HaoWei

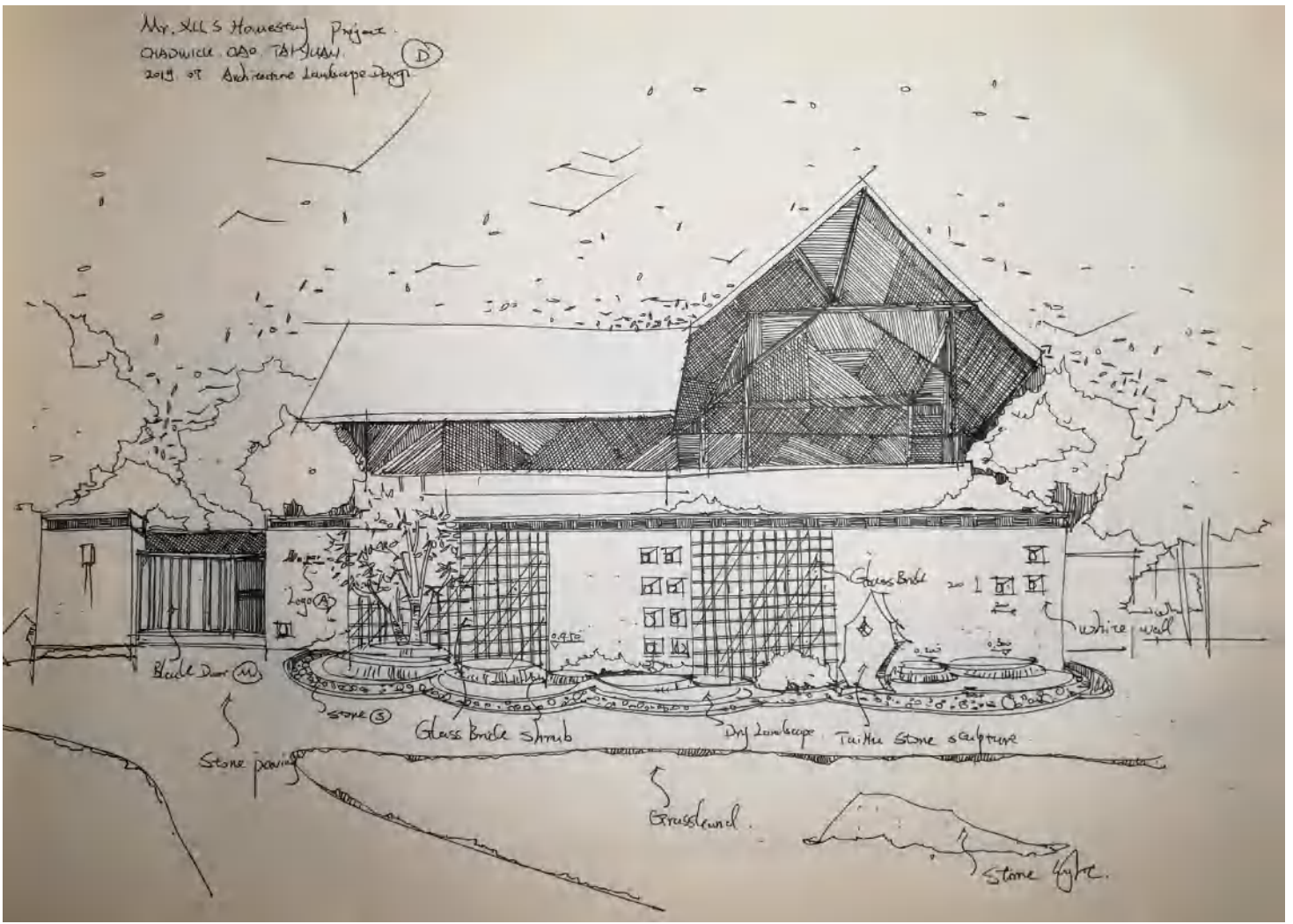


The Original Appearance of the House, June 2020

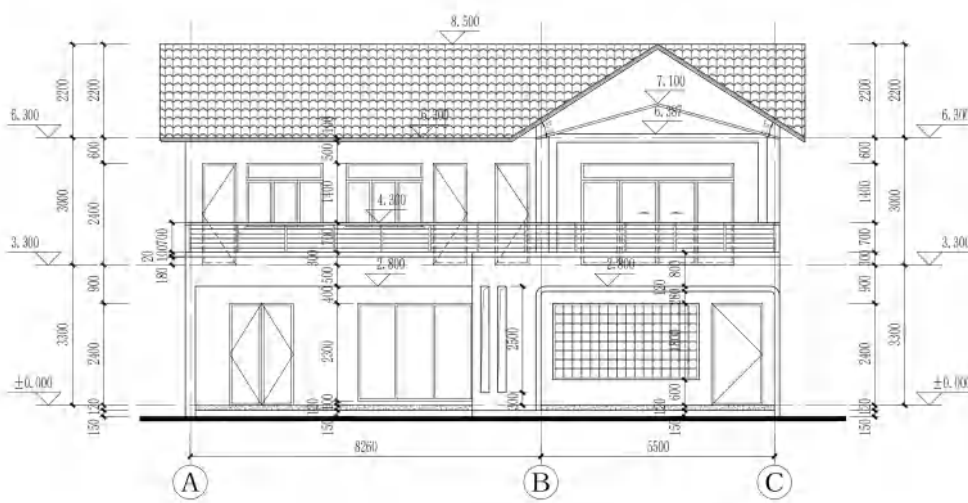
Xinzhou District, Wuhan City, Hubei Province, China

The Plan Did Not Materialize, June 2020

4.



Architectural Sketches, July 2020



Building Exterior Plan, July 2020

This project is located in Xinzhou District, Wuhan City, Hubei Province, China. The author came into contact with this project in 2020 and successively carried out field investigations, surrounding inspections, and other related design work.

# Homestay Inn Design



Aerial Renderings of Buildings, July 2020



Building Materials, July 2020

The scope of the design is the homestead of the homeowner. The homestead refers to the land owned and used collectively by farmers or individuals in the countryside as a residential base, covering approximately 540 square meters. The homeowner has a high degree of autonomy for the space within the scope. Through communication with the homeowner, we learned about its core needs. We transformed the original residence into a multifunctional building that can have both daily life and homestay inn reception capabilities.



Architectural Renderings, July 2020

# Architectural Design

## Huanghu Village Homestay Inns Design (Masterpiece)

Rural Homestay Inn Design

HUANG ZhenKai, CAO Hui



Aerial Pictures of Villages, October 2021

Dajinwan Village, Caidian District, Wuhan City, Hubei Province, China

Under Construction, March 2021

# 5.



# Building A&B ( Under Construction)



Demolished, October 2021

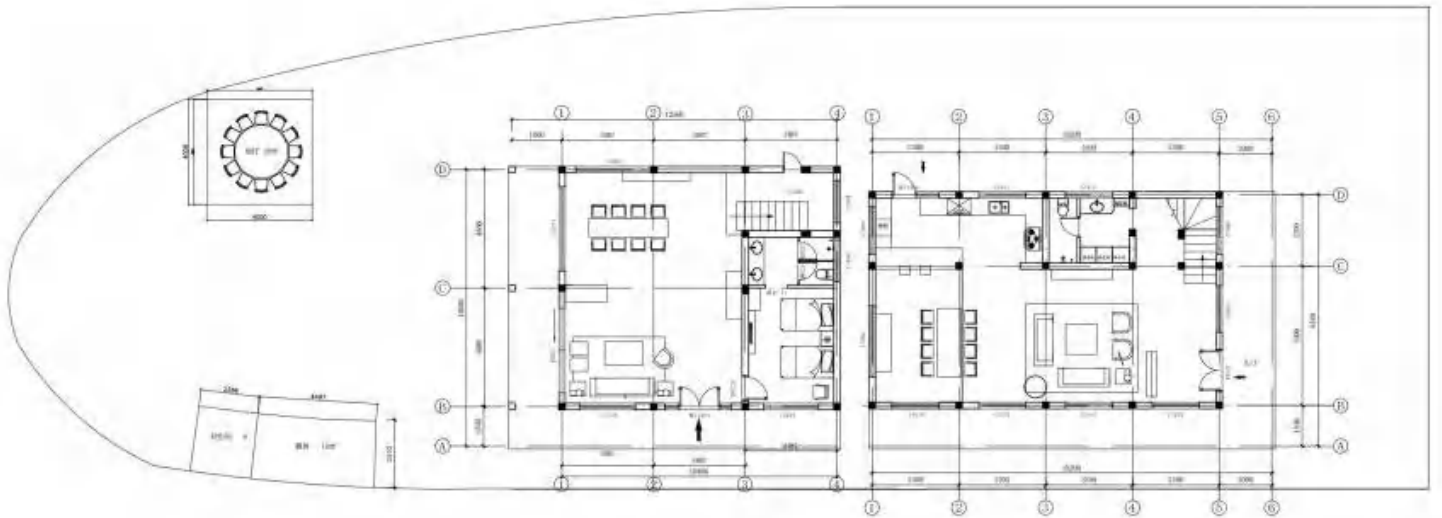
Buildings A&B. The original buildings are one-story adobe structures after communication with Part A and design requirements. The structure of the original house was not suitable for renovation, so it was decided to demolish and rebuild. The new building is a two-story building.

The investment cost is about 1.2 million CNY. The design area is 908 square meters (the building covers an area of 240 square meters). Mr. Zhao rents the house (Building A) on the west side, and Ms. Wang rents the house (Building B) on the east side. It signed a 20-year lease with the original landlord.



Original Structure of the House  
October 2021

# Building A&B



Courtyard Plan, December 2021



Building A&B Renderings, December 2021

# Building C ( Completed)



Under Construction, October 2021



Use Old Structural Wood, October 2021

Building C is a newly built building whose primary function is for pottery and accommodation, and a theme salon is arranged every week for gatherings of less than ten people( Figure 5-12). The investment cost is approximately 0.8 million CNY. The design area is about 430 square meters (the building covers an area of 190 square meters).



Building Exterior, April 2022



Under Construction, January 2022





Outdoor Activity Area, April 2022



Courtyard Fence, April 2022





Living Room, April 2022



Furnishings, April 2022



Fireplace, March 2022

# Building D ( Under Construction)

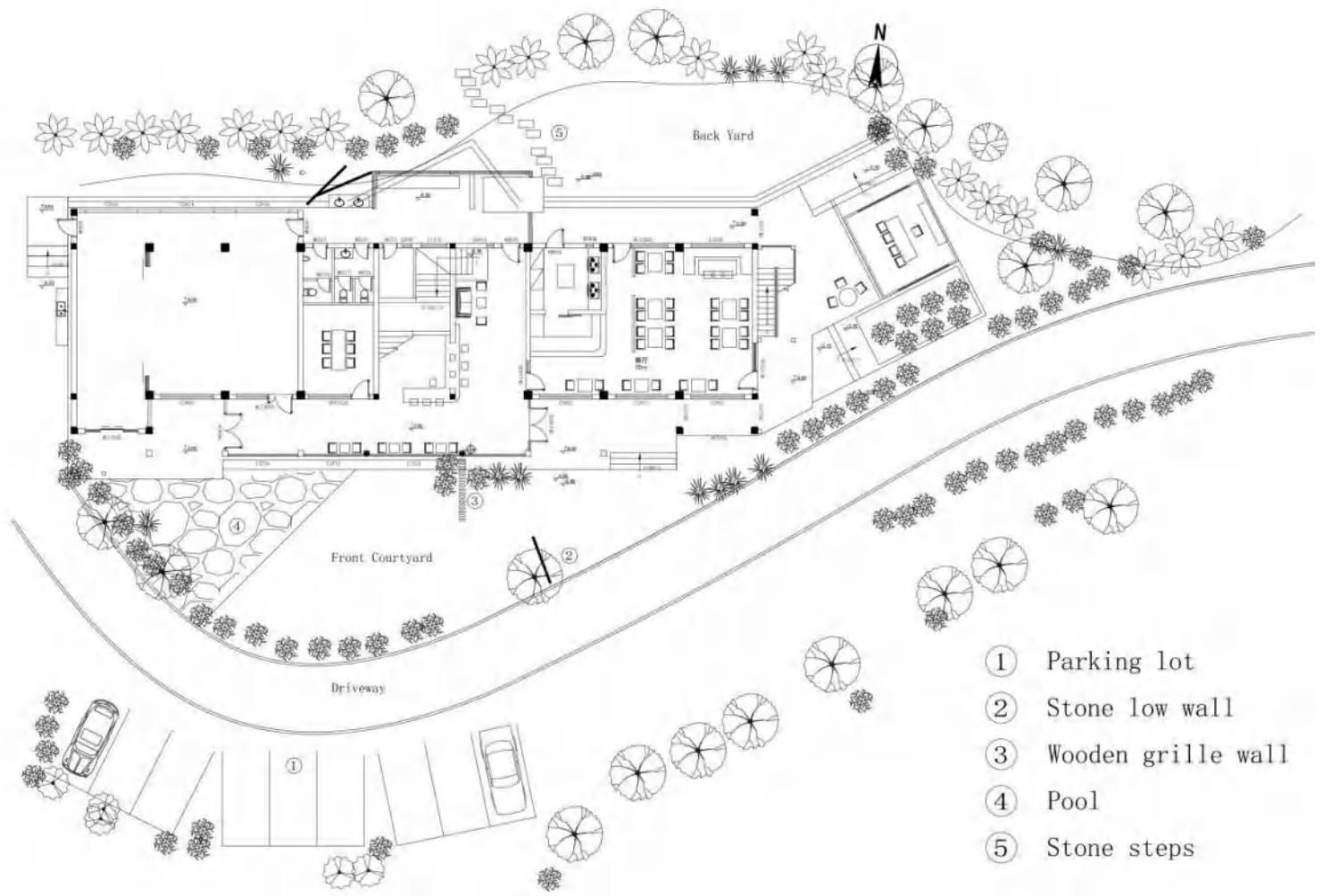


Original Appearance of Building, October 2021

Building D, the original building, was a two-story building with a brick-concrete structure. After communicating with Party A, the author's team renovated the house and transformed it into a three-story building. The primary function is a training room that can accommodate 30-50 people.

The training content includes but is not limited to (Chinese medicine health preservation, dancing, singing, etc.), live broadcast room, employee office, guest room, etc. The investment cost is about 3 million CNY, and the design area is 1,040 square meters (the building covers an area of 615 square meters).



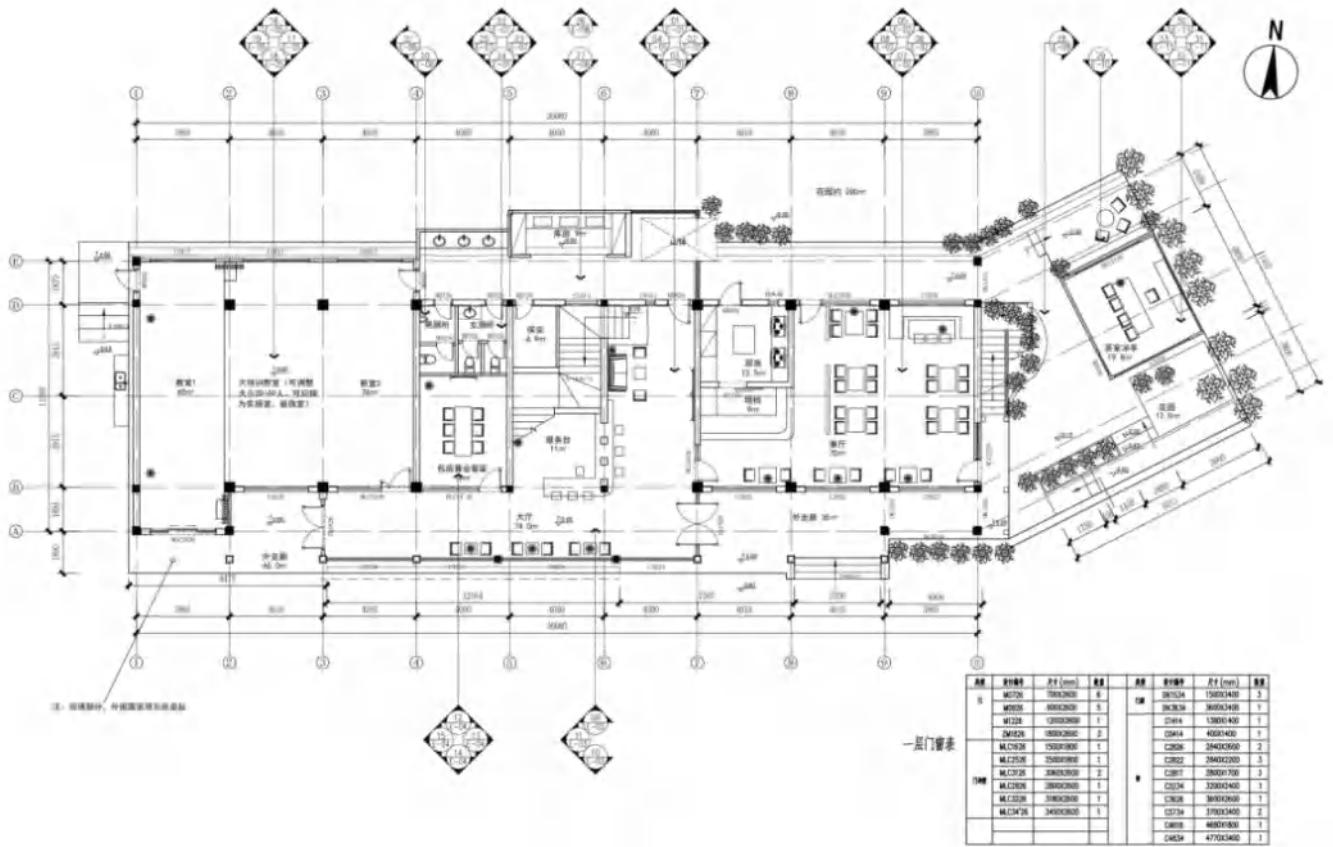


Courtyard Plan, October 2021



Building Renderings, October 2021





Ground Floor Plan, October 2021



The Reception Area, October 2021



Restaurant Renderings, October 2021



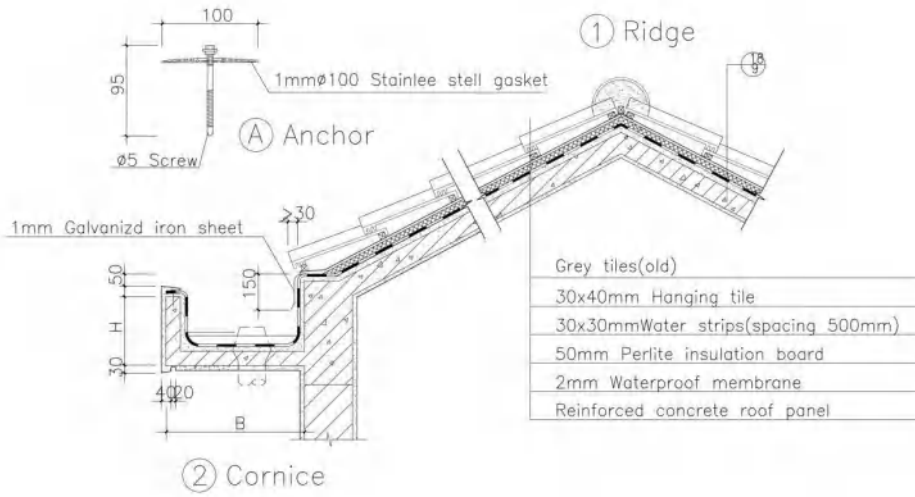
Multifunctional Training Room, October 2021



Guest Room Sectional Drawing, October 2021



Guest Room Sectional Drawing, October 2021



Roof Structure, October 2021



Structural Reinforcement, December 2021



Pouring of Load-Bearing Beams and Columns, December 2021



Roof Under Construction, December 2021



Reinforcement of Building Structure Complete, April 2022



Restaurant is Under Construction, April 2022



Guest Room is Under Construction, April 2022



# Interior Design

## Gubei Yunzhu Homestay Inn Design-Yunzhu Yard

Rural Homestay Inn Design

HUANG ZhenKai, CAO Hui



Construction Site Photo, January 2020

Longhu-Changcheng Yuanzhu Community, Miyun District, Beijing City, China

Completed, June 2020

# 6.

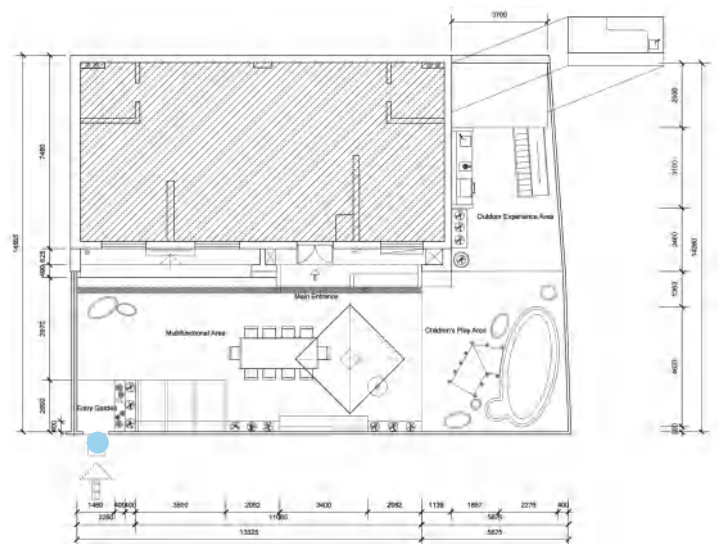
# Parent-Child Homestay Inn



Effect Drawing of Courtyard Entrance, November 2019

The project is located in Longhu-Changcheng Yuanzhu Community(LCY community), Miyun District, Beijing city, China. The community is located in the Gubeikou tourism and vacation section. The project's north side is the Simatai Great Wall; the east side is Gubei WTown, a national tourism resource. The west side is Panlongshan Great Wall Cultural Scenic Spot, Wuhu Mountain, and Beijing Zihai Xiangdi Vanilla Art Manor. The Wuling Mountain National Nature Reserve is on the south side, a summer resort in Beijing.

The entire Gubeikou area is the only way to go through the Beijing-Chengde holiday golden line. LCY community is the only residential project in the entire resort segment. The author's work is to design a room and courtyard in the community.



Courtyard Plan, November 2019





Training Room, January 2020



Furnishings, January 2020





Children's Play Area, January 2020



Children's Play Area, January 2020



# Interior Design

## Insulation & Monitoring Laboratory Design Hubei University of Technology

HUANG ZhenKai



Building Facade, April 2021

Hongshan District, Wuhan City, Hubei Province, China

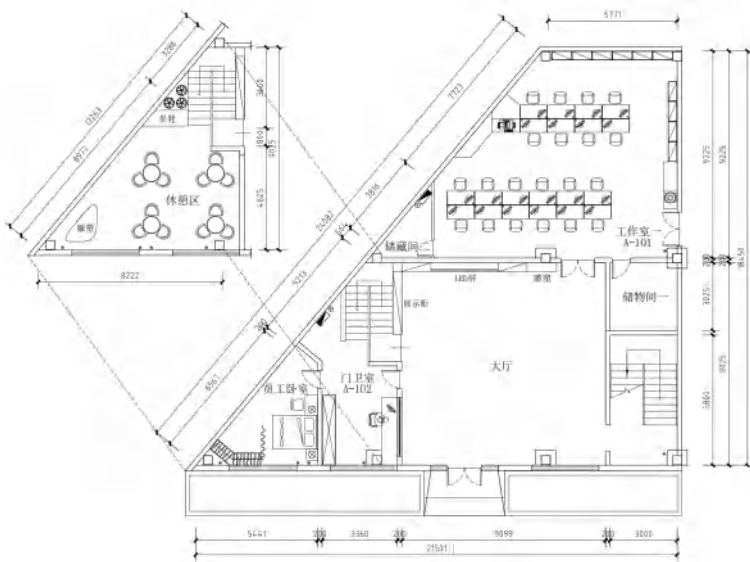
Completed, December 2021

7.

# Office Space



Ground Floor Renderings, April 2021



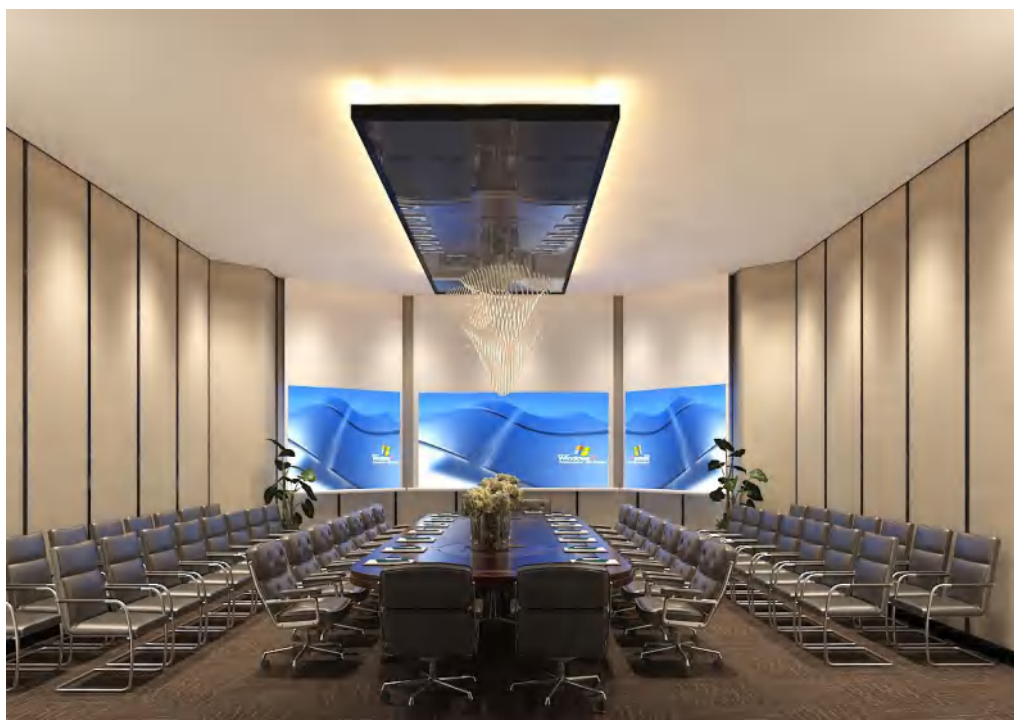
Ground Floor Plan, April 2021

The project is located at Hubei University of Technology, Hongshan District, Wuhan City, China. The Hubei University of Technology has built a new building divided into a part of the insulation and monitoring laboratory. The renovation design of four floors requires the hall design on the first floor, the dean's office, the studios of students and teachers, and the LOGO of the laboratory.



**绝缘与监测实验室**  
Laboratory of Insulation & Monitoring

Laboratory Logo Design, April 2021



Conference Room Renderings, April 2021



Dean's Office Renderings, April 2021

# Interior Design

## Damei Dental Clinic Outpatient Department Design

The Second Branch

HUANG ZhenKai, XIONG Wei



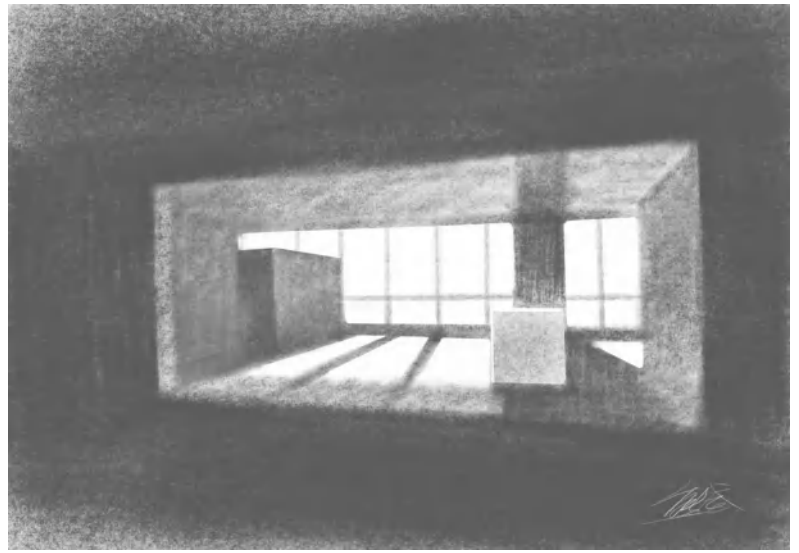
Reception Area, February 2021

Jiang'an District, Wuhan City, Hubei Province, China

Completed, March 2021

8.

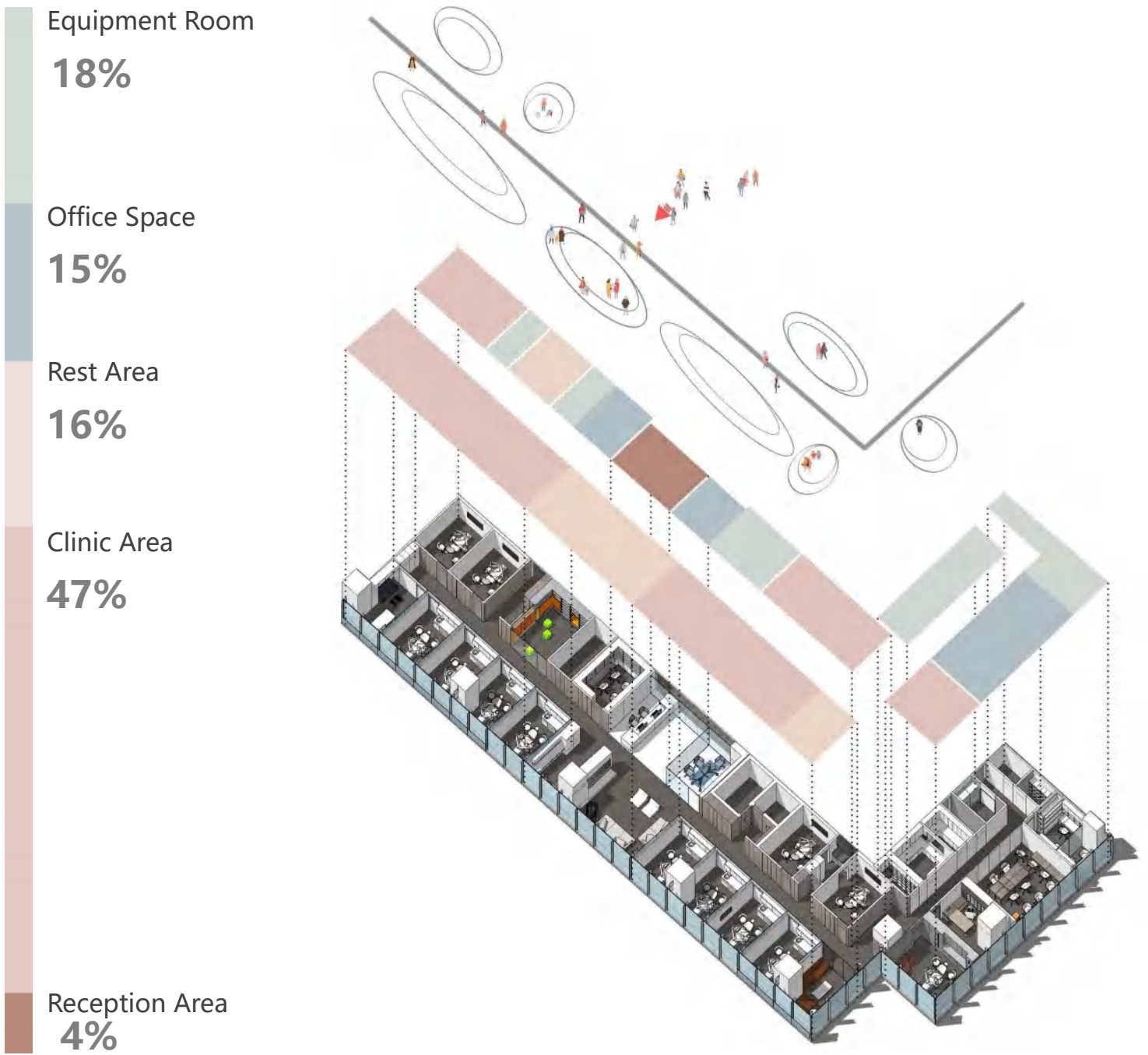
The clinic is located in the Global Wisdom Center, Wuhan City, Jiang'an District, China. It is located in the core business district, has good public transportation, and occupies a geographical advantage. The glass curtain wall structure provides a large lighting area and a wide field of vision. The city is bustling, and the scenery on both sides of the strait is unobstructed. The designer placed most of the diagnosis and treatment rooms on the side of the glass curtain wall so that customers could feel the sun's warmth during the diagnosis and treatment process, which can relieve anxiety, tension, anxiety, and other negative emotions to a certain extent.



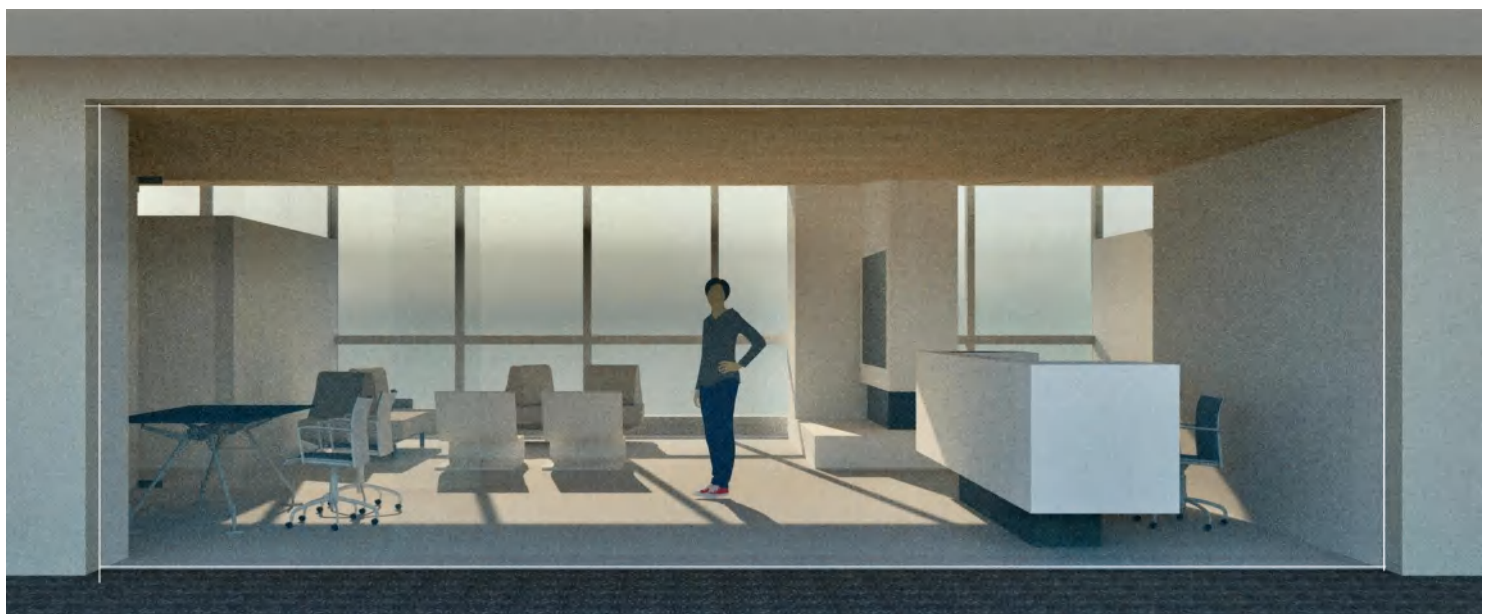
Hand Drawing of Rest Hall, October 2020



Dental Clinic Lobby, February 2021



Functional Partition Diagram, October 2020



Rendering of the Lobby of the Dental Clinic, October 2020



# Clinic Design



Dental Clinic Rest Hall, February 2021

Many wood elements and warm colors are used in this design to create a relaxed and pleasant warm atmosphere. In the partition design, the upper end of the partition wall is enclosed by glass, forming a semi-enclosed space with visual transparency and introducing natural light into the interior. The strip light strip complements the light and has a specific guiding role.



VIP Treatment Room, February 2021

# Interior Design

## Damei Dental Clinic Outpatient Department Design

The Third branch

HUANG ZhenKai, XIONG Wei



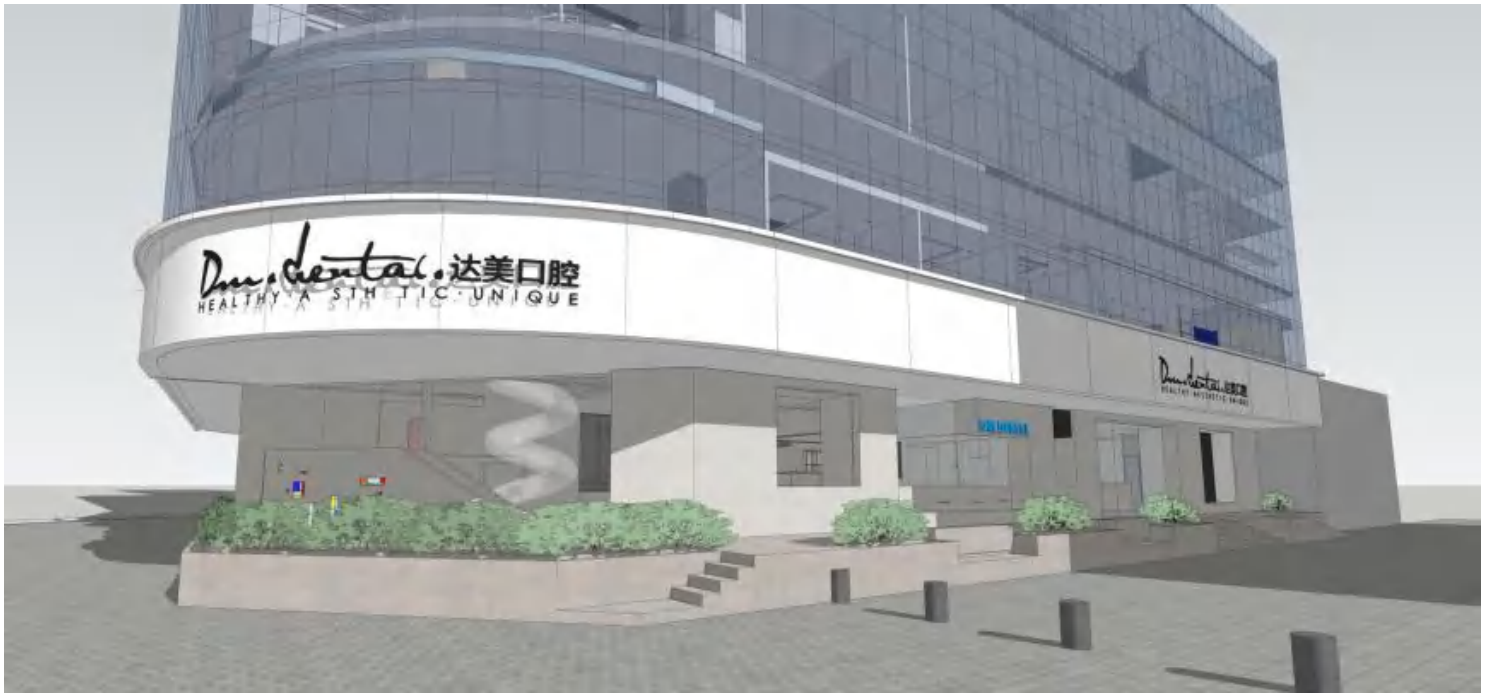
Building Exterior During Construction, February 2022

Jiangnan District, Wuhan City, Hubei Province, China

Completed, March 2022

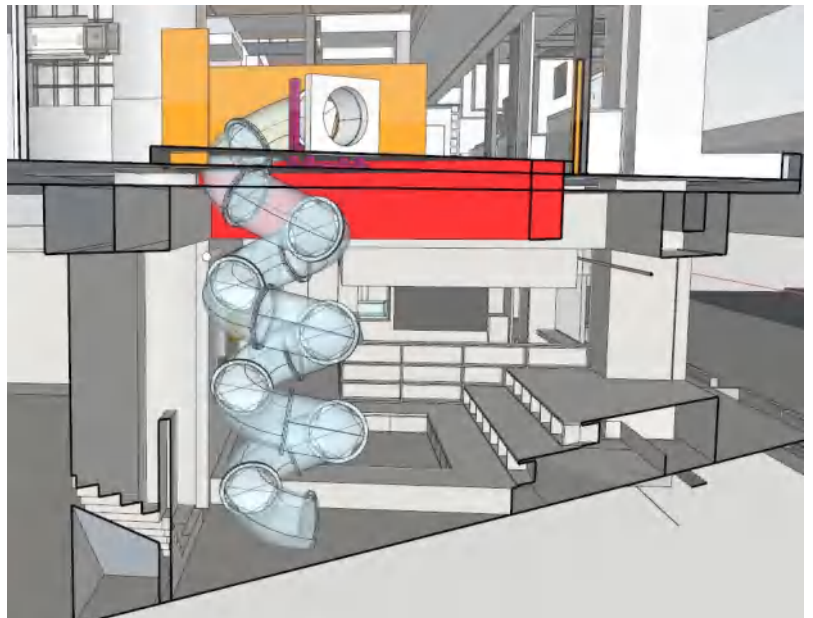
9.

# Clinic Design



Architectural Exterior Renderings, July 2021

The project site is located in Cedar Road, Jiangnan District, Wuhan City, China. The design is changed to the outdoor landscape, building exterior, interior design, and four floors, with a total design area of about two thousand square meters. The investment cost is about six million CNY, and the internal space integrates diagnosis and treatment, production room, training room, photography room, meeting room, etc. It also contains multi-functional spaces such as children's entertainment, and pre-built high-end medical clinics, giving customers a homely feeling.



Structural Simulation Diagram, July 2021



Building Exterior, February 2022



Architectural Details, February 2022



Construction Process, February 2022

# Exhibition Design

## Conference Site Design of the 2nd China Nature Education Symposium

HUANG ZhenKai



Exhibition Hall Admission Diagram, May 2021

Wuhan Garden Expo Garden, Qiaokou District, Wuhan City, Hubei Province, China  
Completed, May 2021

10.



The Event Site, May 2021



VIP Rest Area, May 2021

This project is a conference exhibition and VI design located in the Wuhan Garden Expo Park, Wuhan City, China. This conference is hosted by the China Forestry Society and Alibaba Foundation, and the second roundtable conference of "China's Nature Education Talks" was held on May 8th.

# Exhibition Design

## 2019 Wuhan Design Day and the 5th Design Biennale Exhibition Hall Design

HUANG ZhenKai, XIONG Wei

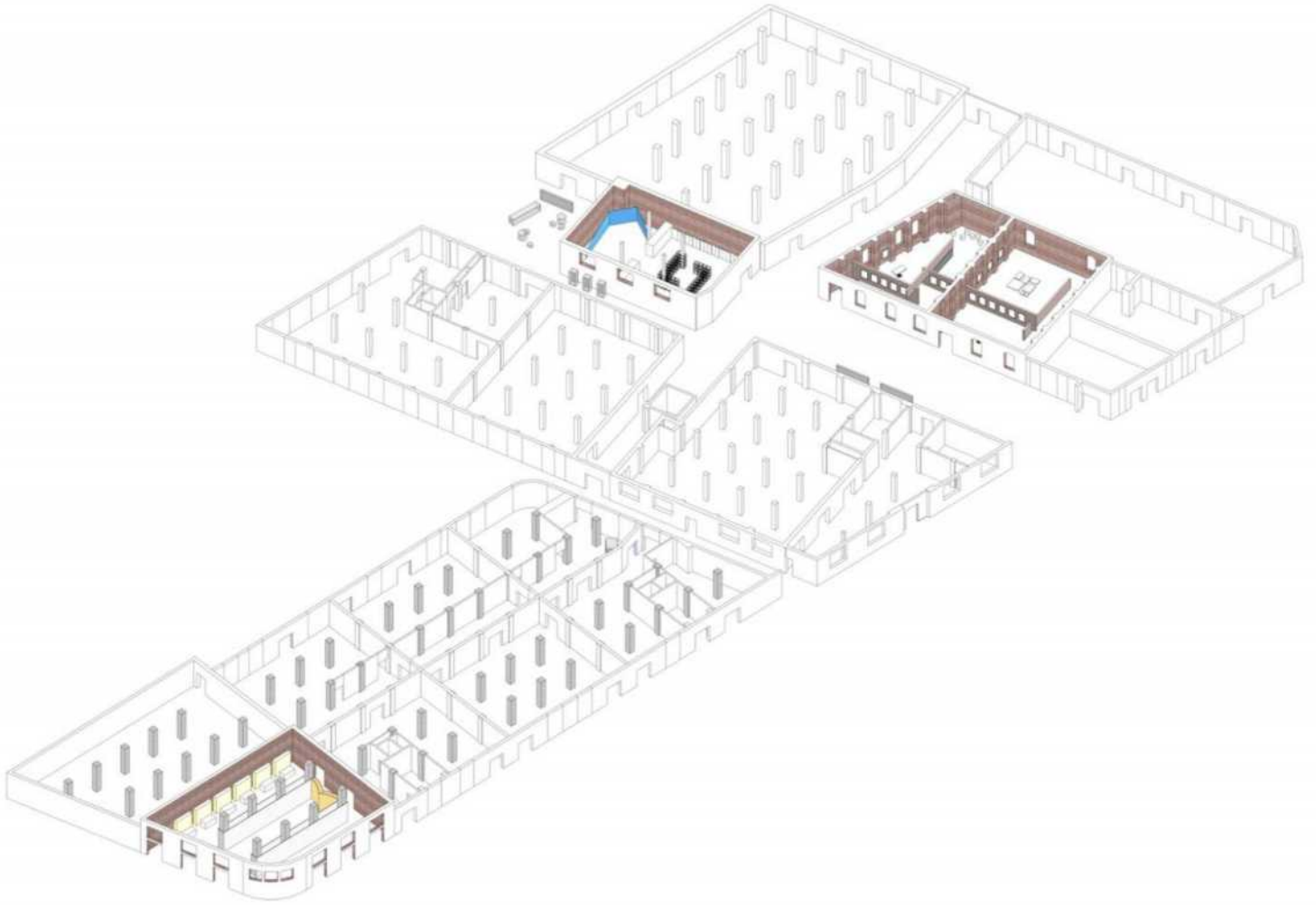


Pinghe Packaging Factory, June 2019

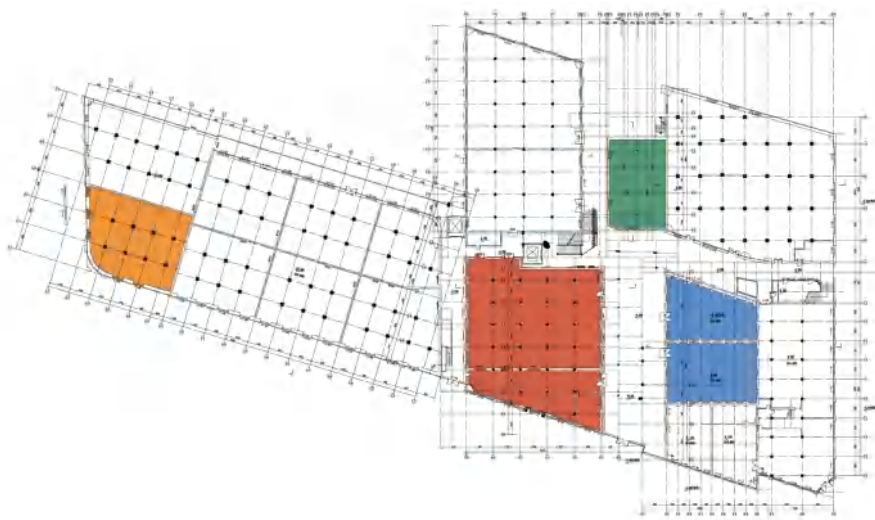
Hankou District, Wuhan City, Hubei Province, China

Completed, November 2019

11.



Ground Floor Axonometric Map, November 2019



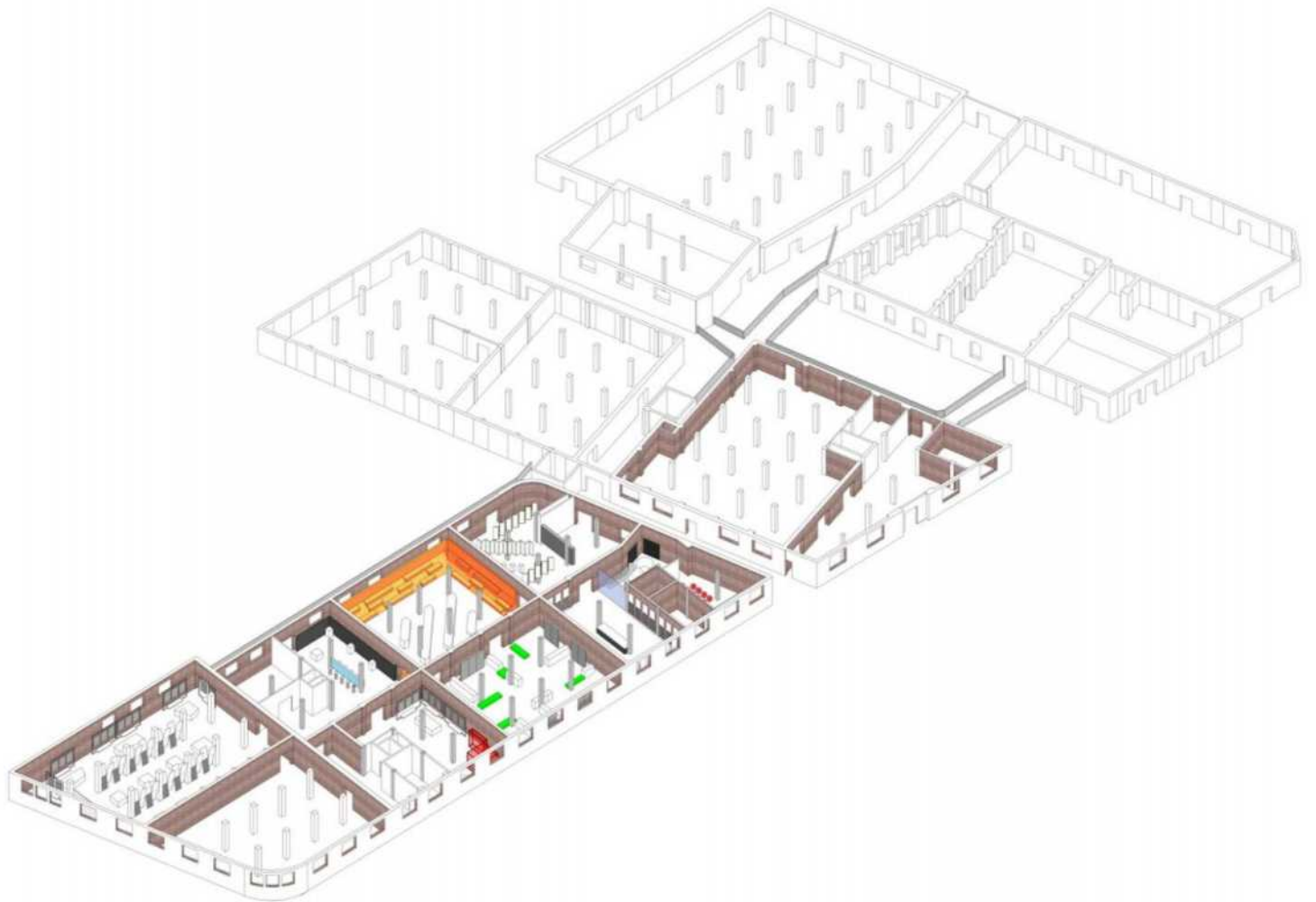
Ground Floor Plan, November 2019

Design area 1629.06m<sup>2</sup>

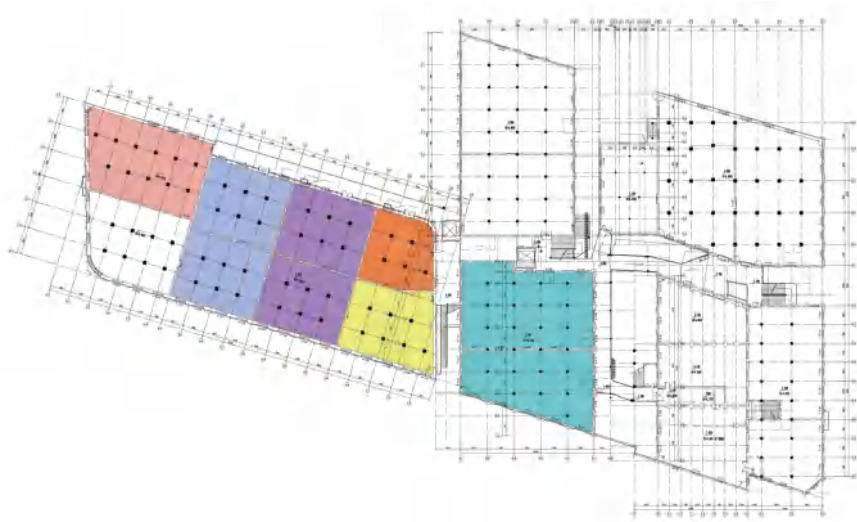
<span style="color: orange;">■</span> Wuhan Time-Honored Brand Exhibition	318.40m <sup>2</sup>
<span style="color: red;">■</span> Design & Life Exhibition	697.80m <sup>2</sup>
<span style="color: green;">■</span> Design Education Exhibition	205.58m <sup>2</sup>
<span style="color: blue;">■</span> Exhibition of Wuhan Project in the 70 Years of New China	407.28m <sup>2</sup>

In 2019, the theme of Wuhan Design Day was "Exquisite·City." From different angles, Wuhan will showcase the improvement and development of design creativity through design, make the city better and make life better, and promote the new image of Wuhan's "civilization, harmony, wisdom, and cleanliness."





Ground Floor Axonometric Map, November 2019

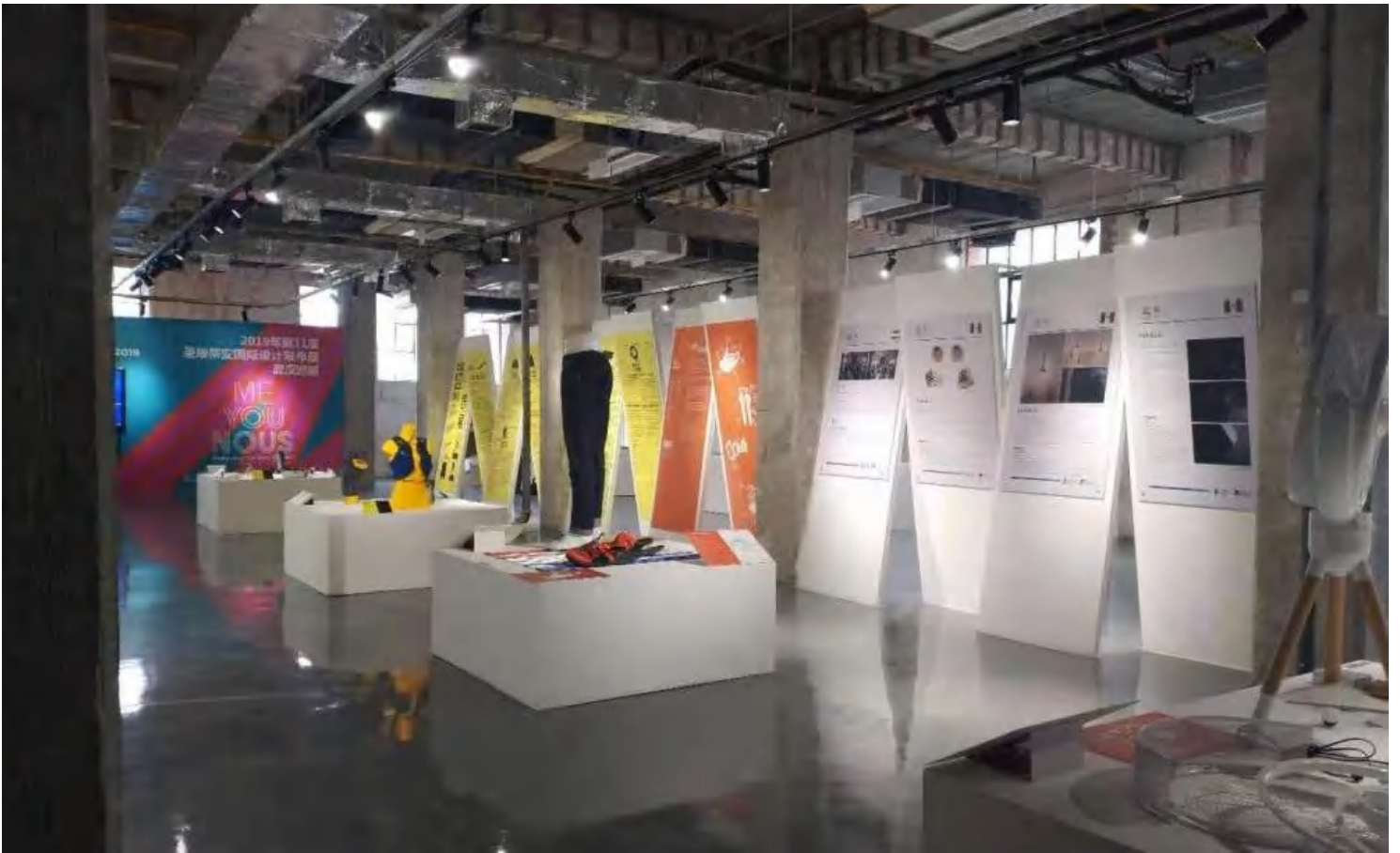


Ground Floor Plan, November 2019

Design area 2475.92m<sup>2</sup>

<span style="color: red;">■</span> Invitational Exhibition of City of Design, UNESCO Creative Cities Network	406.07m <sup>2</sup>
<span style="color: blue;">■</span> China Creative City Design Invitational Exhibition	344.48m <sup>2</sup>
<span style="color: purple;">■</span> The Exhibition of The Industrial Design	530.79m <sup>2</sup>
<span style="color: orange;">■</span> Excellent Works Exhibition of Wuhan Creative Design Competition	212.62m <sup>2</sup>
<span style="color: yellow;">■</span> Chinese Excellent Illustration & Animation Works Invitational Exhibition	234.21m <sup>2</sup>
<span style="color: green;">■</span> Exhibition of Hanfu Culture	747.75m <sup>2</sup>

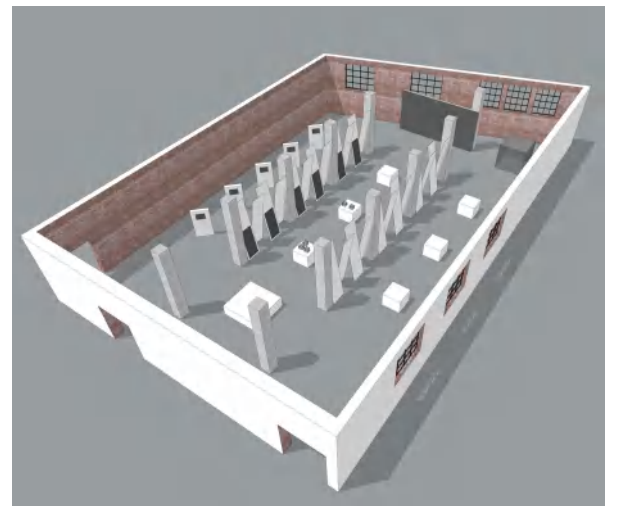
The total design area is about 5,500 square meters and contains 1,300 square meters of public parts. There are 12 different sections in this exhibition area— industrial design exhibition halls, cultural education exhibition halls, Wuhan old brand exhibition halls, etc.



Invitational Exhibition of City of Design, UNESCO Creative Cities Network, November 2019



Under Construction, November 2019



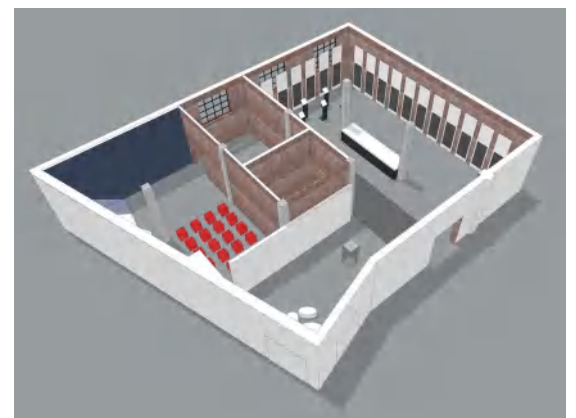
3D Digital Model display, November 2019



Chinese Excellent Illustration & Animation Works Invitational Exhibition, November 2019



Under Construction, November 2019



3D Digital Model display, November 2019

# Exhibition Design

## 2021 Wuhan Design Day and the 6th Design Biennale Exhibition Hall Design

HUANG ZhenKai, LEI TiLun, XIONG Wei, PAN HaoWei



Hanyang Iron Works, August 2021

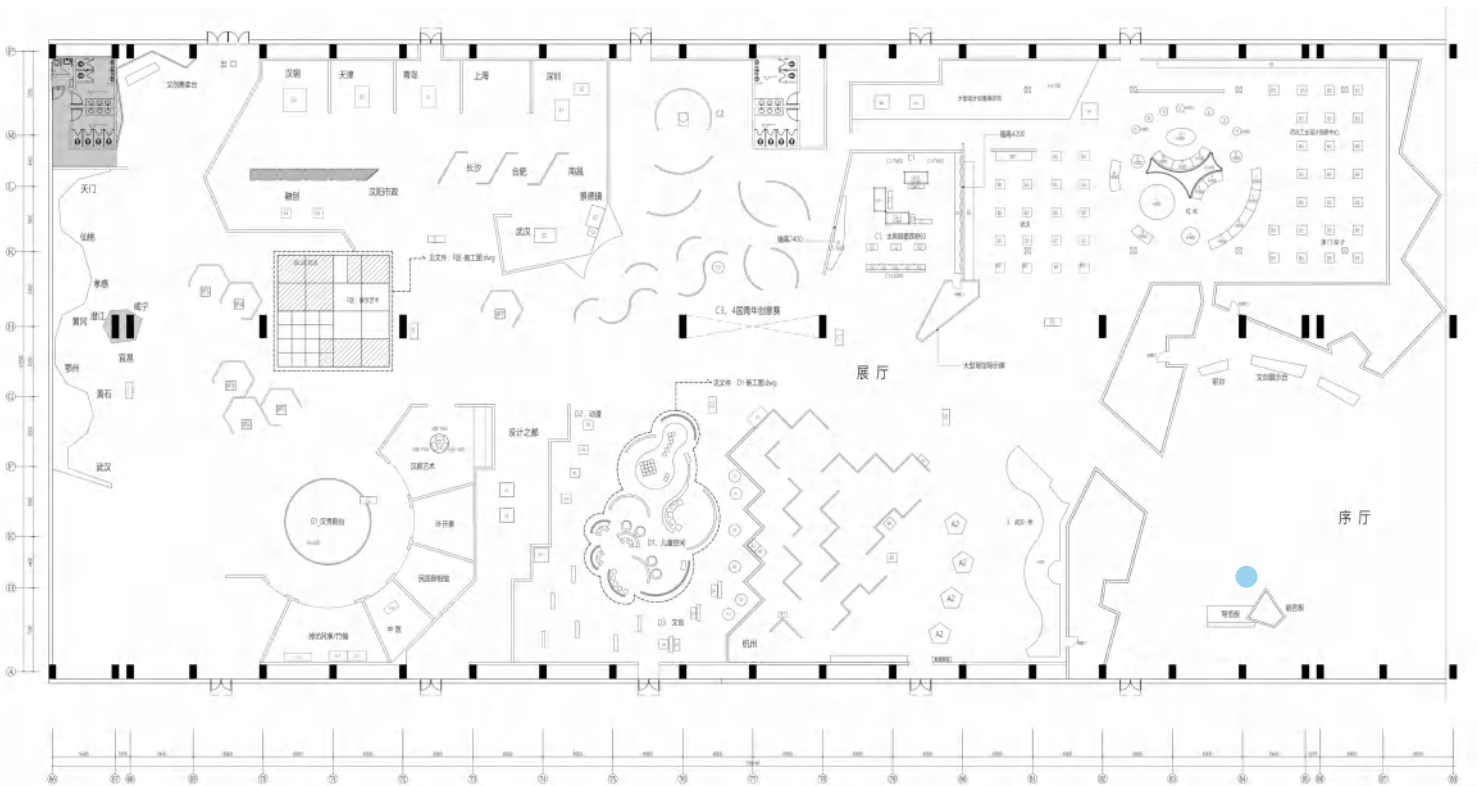
Hankou District, Wuhan City, Hubei Province, China

Completed, November 2021

# 12.



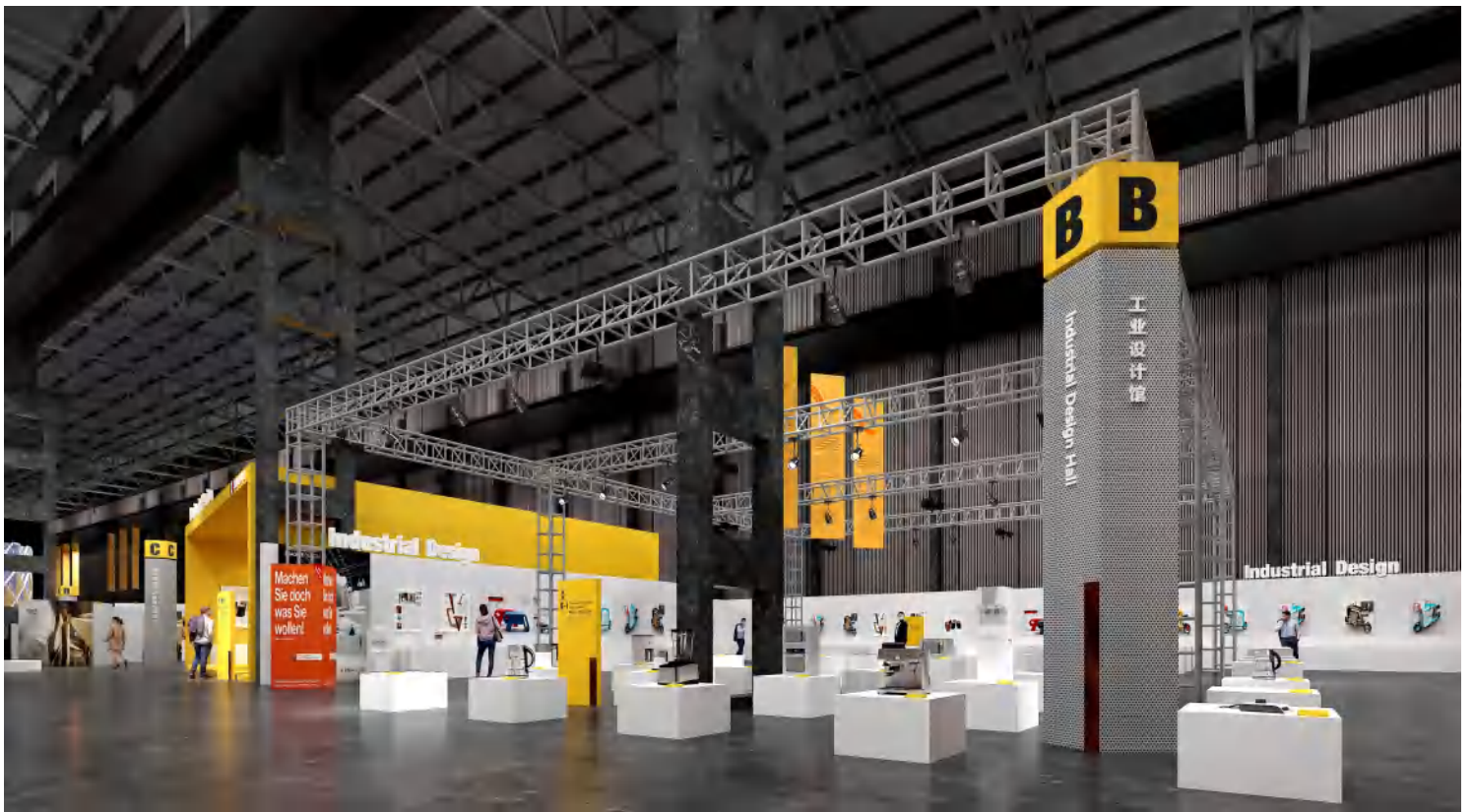
Vestibular Renderings, October 2021



General Plan, October 2021



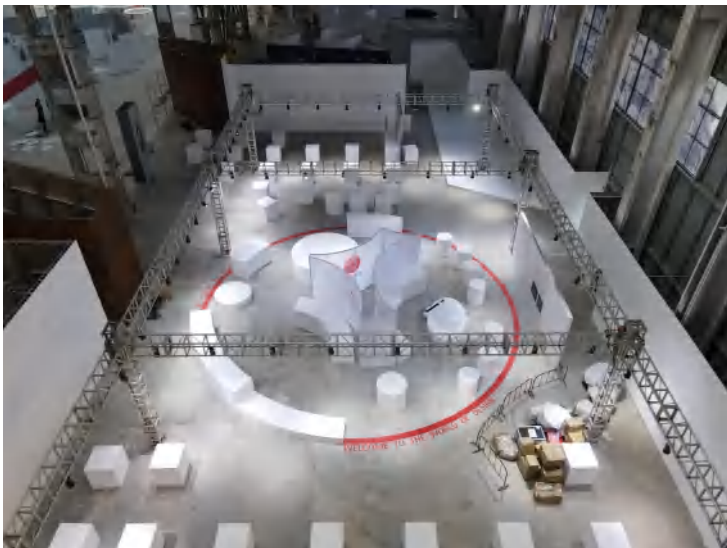
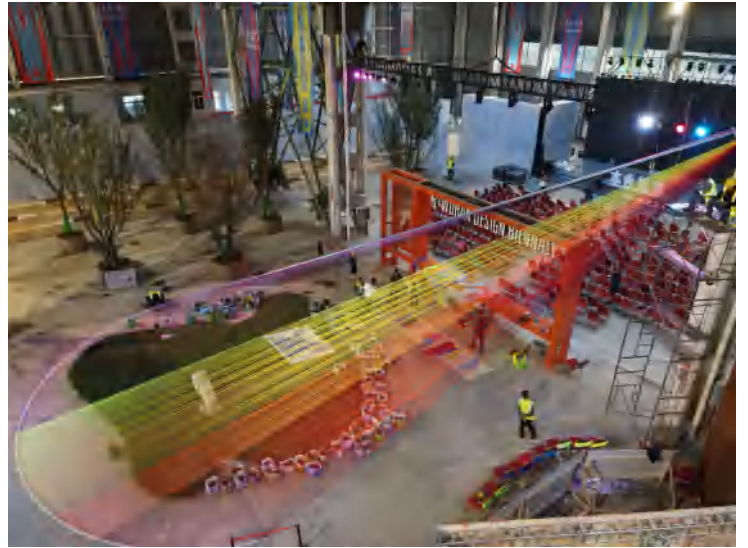
Interior Renderings of the Exhibition Area, October 2021



Industrial Design Exhibition Hall, October 2021

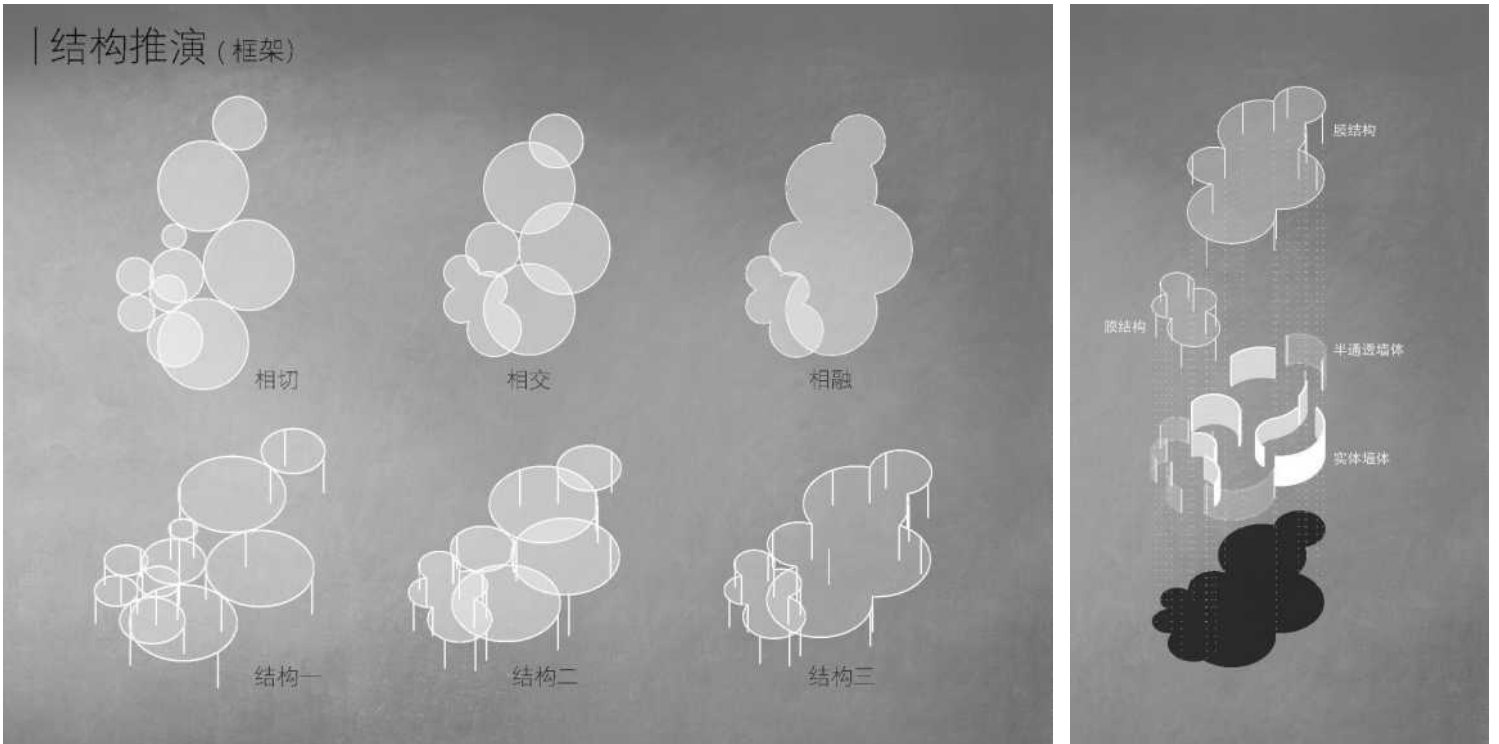


Group Photo of Team Members, October 2021



Stage of Arranging Exhibits, October 2021

# Children's Space ( Clouds Art Space)



Structure Deduction, October 2021



Culture and Art Exhibition Hall, Children's Space, October 2021





Top View of Children's Space, October 2021



Under Construction, October 2021



The First Day of the Exhibition, November 2021



The Last Day of the Exhibition, November 2021



Child Playing with Blocks, November 2021

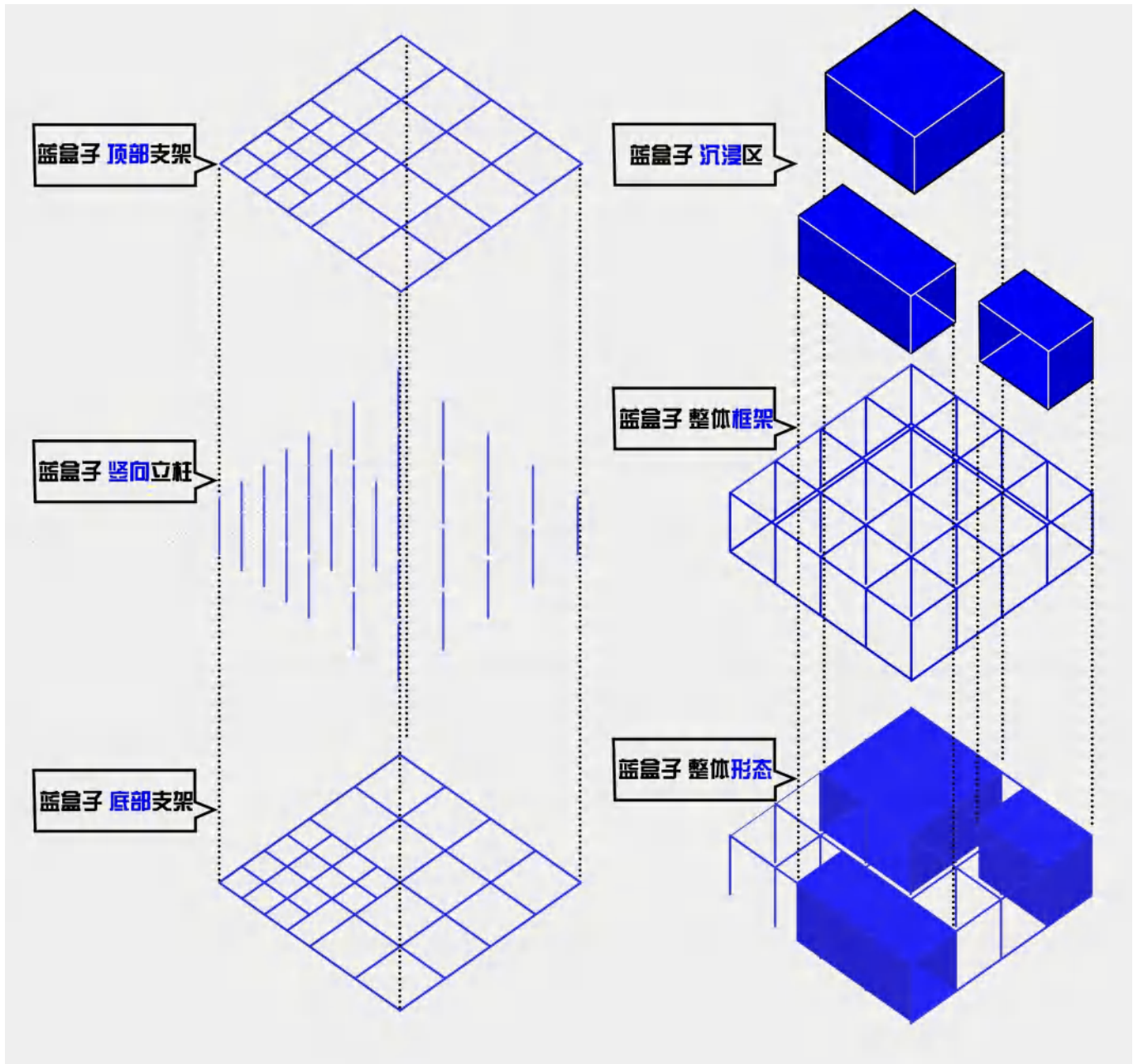


Photography, November 2021

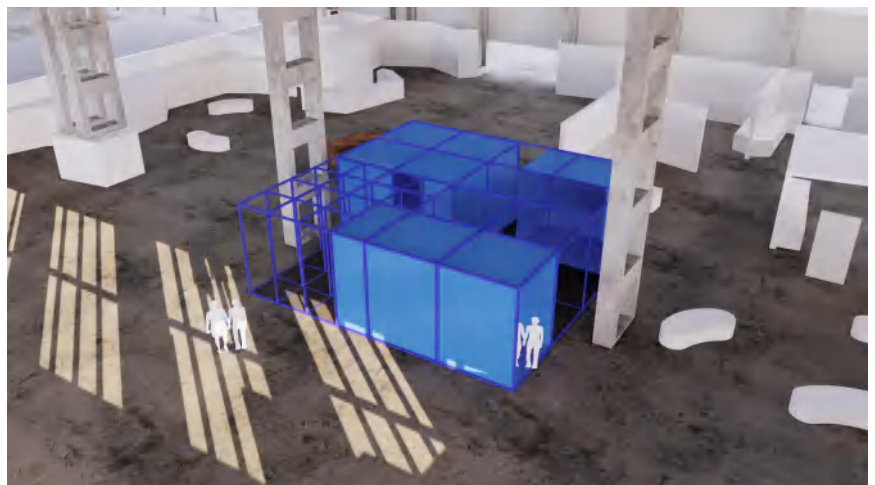


Photography, November 2021

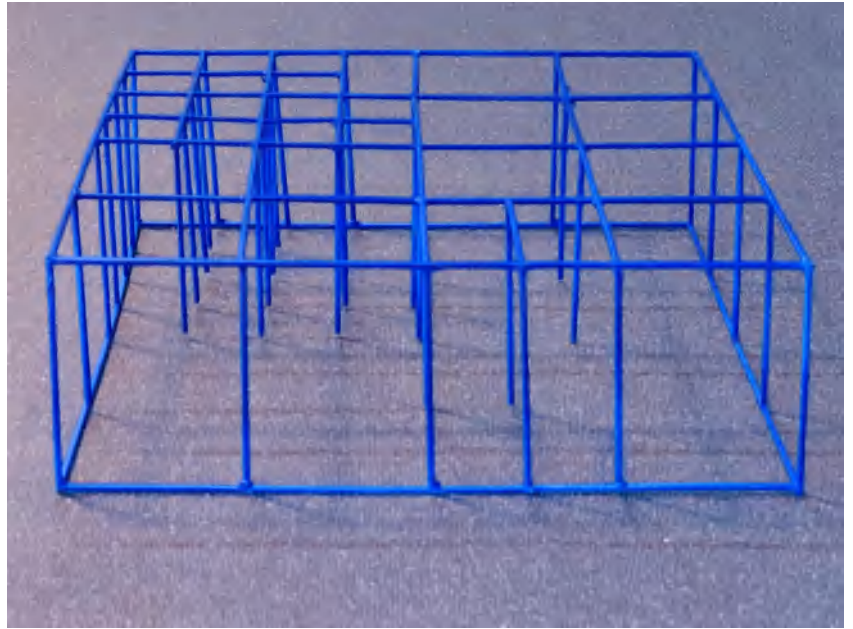
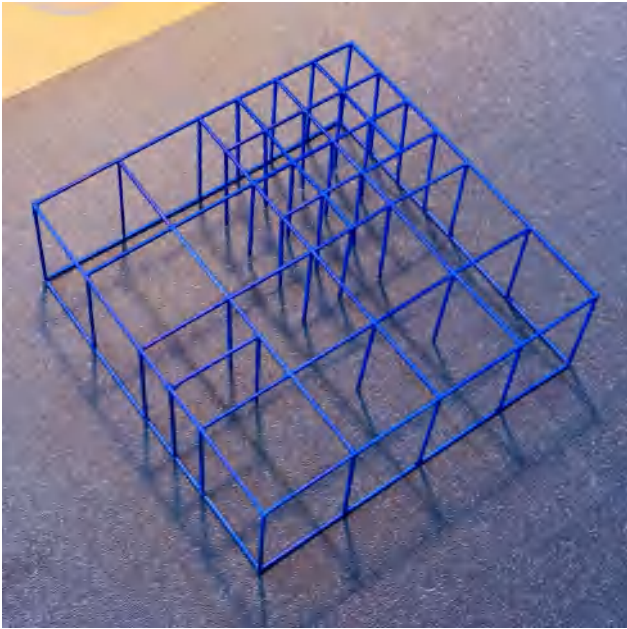
# Digital Space ( Blue Box )



Structure Deduction, October 2021



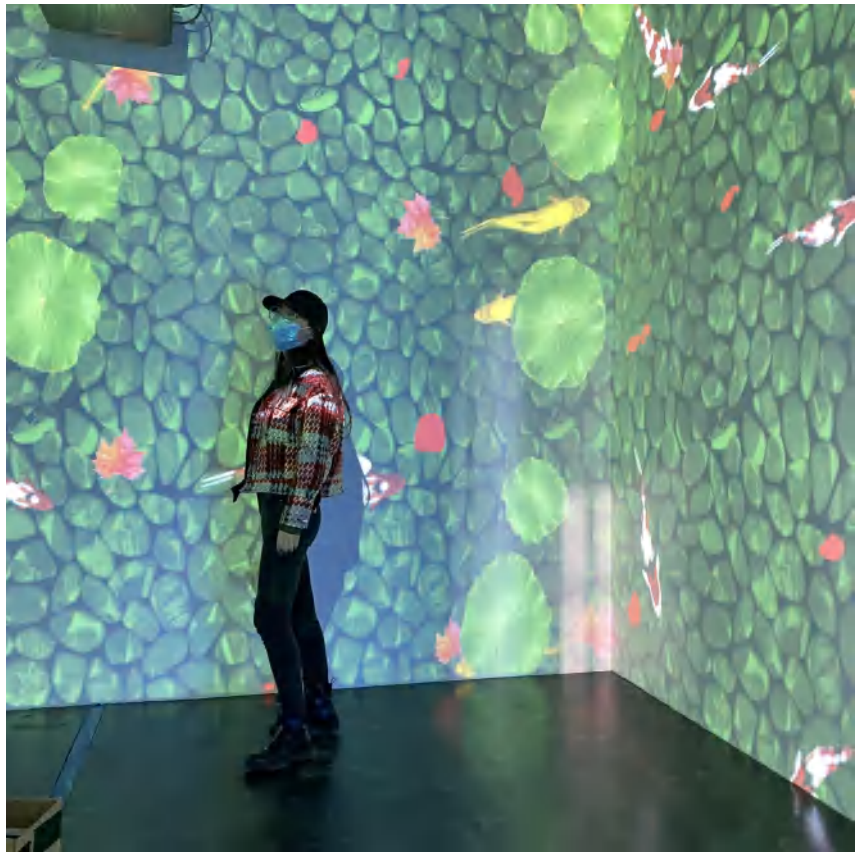
3D Model, October 2021



Structural Model, November 2021



Structural Construction, November 2021



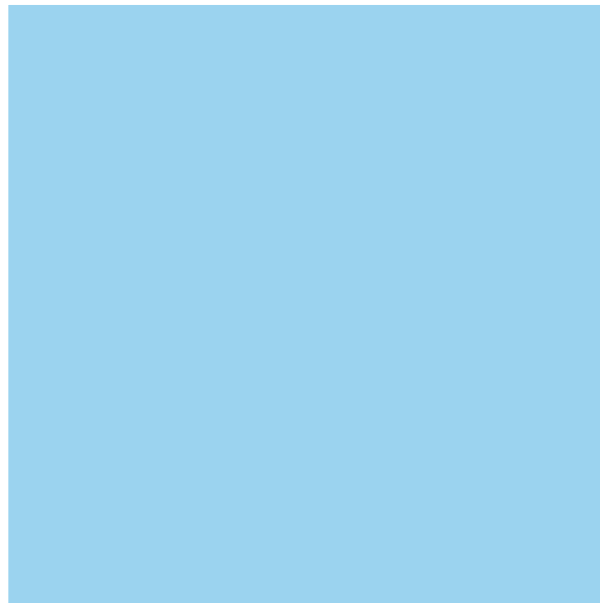
Digital Experience Space, October 2021



IBLUE Digital Experiment Space Exhibition Area, October 2021

# Thanks

Marcel Breuer Doctoral School  
Faculty of Engineering and Information Technology  
University of Pécs



HUANG ZhenKai  
2018 -2022 DLA in Architecture

