



| Personal Details | Education | Ac |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|
| | | |
| Alex Borger | 2020 - Present | 202 |
| Columbus, Ohio | Bowling Green State University, | IM Bo |
| M : [614] 203 - 6877 E : alexborger69673@gmail.com Work Experience May 2023 - August 2023 Architectural Intern MKC Architects | B.S Architecture Expected Graduation - April 2024 | Aw |
| | Fall 2020 - Dean's List | 202 Fre |
| | Spring 2021 - Dean's List | Bo [,] Aw |
| | Fall 2022 - Dean's List | |
| | Spring 2023 - Dean's List | 202 Oh |
| | Fall 2023 - Dean's List | Sec Aw |
| May 2022 - August 2022 Architectural Intern MKC Architects | | 202 CU Box |
| September 2022 - August 2023 Architectural Visualizer Ballard Architectural Studio | | Bo "Br Bo |

 \geq

Curriculum Vitae

Curriculum Vitae

Curriculum Vitae

Achievements & Awards

023

MI Masonry Pavilion Competition Bowling Green State University Awarded 2nd Place

2023

Freedom By Design Garden Bed Design Bowling Green State University AIAS Awarded 3rd Place

2023 Dhio State Fair Fine Art's Competition Section - Wood Turning Awarded 3rd Place

2023 CURS Undergraduate Research 3owling Green State University 'Bringing the Common Mind Through 3oth Words and Visualizations"

2022 Impact : Sky-rise Competition Awarded 10th Honorable Mention 10th Place / 700 Participants

CSM : NEXUS

Music school and theater to add defiance to Cranbrooks pathways

Offering a connection point between several defining eras

04

CARBON CITY

Pushing the limits of carbon negative sustainable energy

06

ALLEY HOUSE

CURATION.OF.ALEX

Challenging the limits of where architecture can reside

Creating daily art for 365 days to journal my skill progress

<u>CONTENTS</u>

<u>CONTENTS</u>

<u>CONTENTS</u>

CONTENTS

03

CHAOTIC CONTINUUM



REMNANTS

Visualizing the future urbanism in Detroit using historical moments

05

STUDIO 4

Letting the immediate environment determine the design

08

WOODWORKING

A study into the art woodworking and Japanese design

 \geq

Contents

From this section you will see academic work completed as an undergraduate at the Department of Architecture, Bowling Green State University



All work was completed from 2022-2023

ACADEMICS ACADEMICS ACADEMICS

$\Delta \cap \Delta \cap \mathsf{FN} / \mathsf{I} \cap \mathsf{S}$

CSM : NEXUS

Class Information

Bowling Green State University Stan Guidera Design Studio 4

Project Location

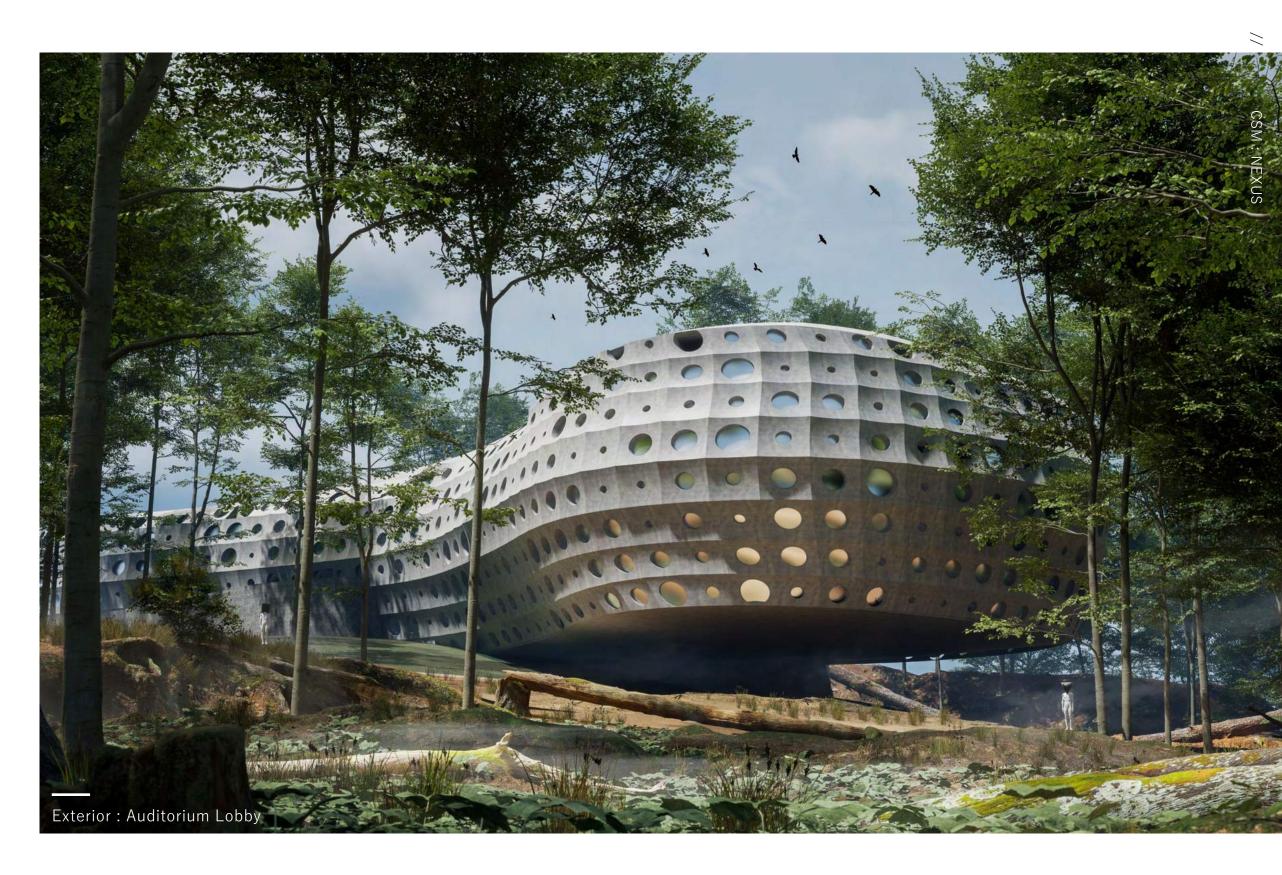
Cranbrook School Bloomfield, Michigan

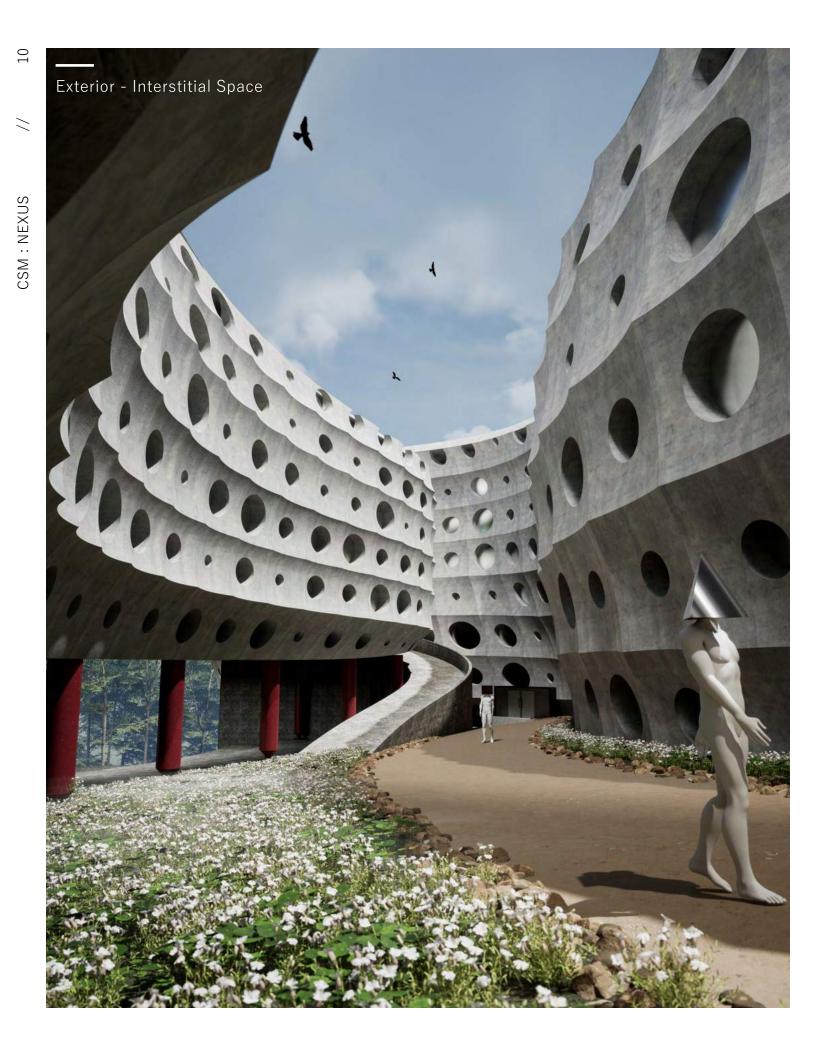
Methods Used Rhino 3d - Vray - Unreal Engine

Project Synopsus

Cranbrook School is known for their academic excellence and their strive for architecturally beautiful designs throughout the campus. Original architect, Eliel Saarinen, had used many experimental and new methods of design when first creating this school, spending time on the fine details without sacrificing the overall scope.

This design proposes a new school for music within the campus' rolling hills. Blending the lines between form and natural experiences, this structure almost feels ominous in its wakening, as if it has always been there.





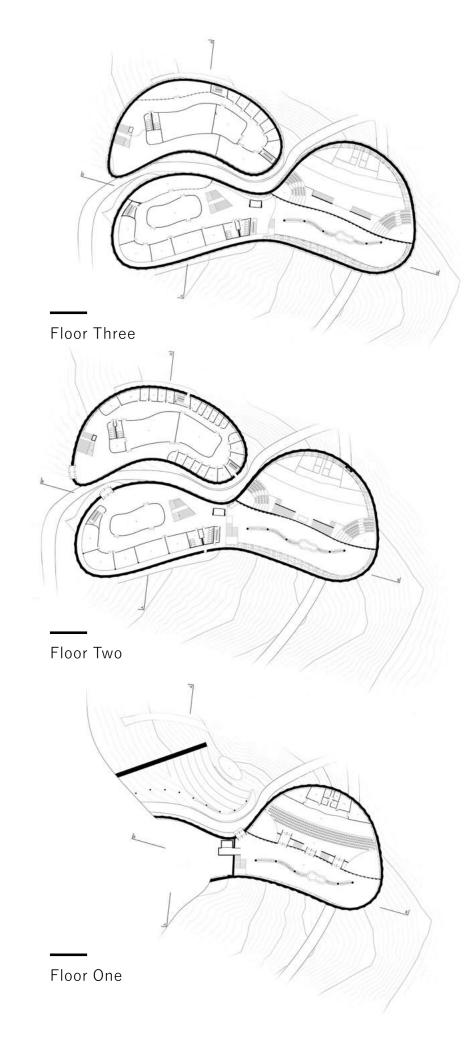


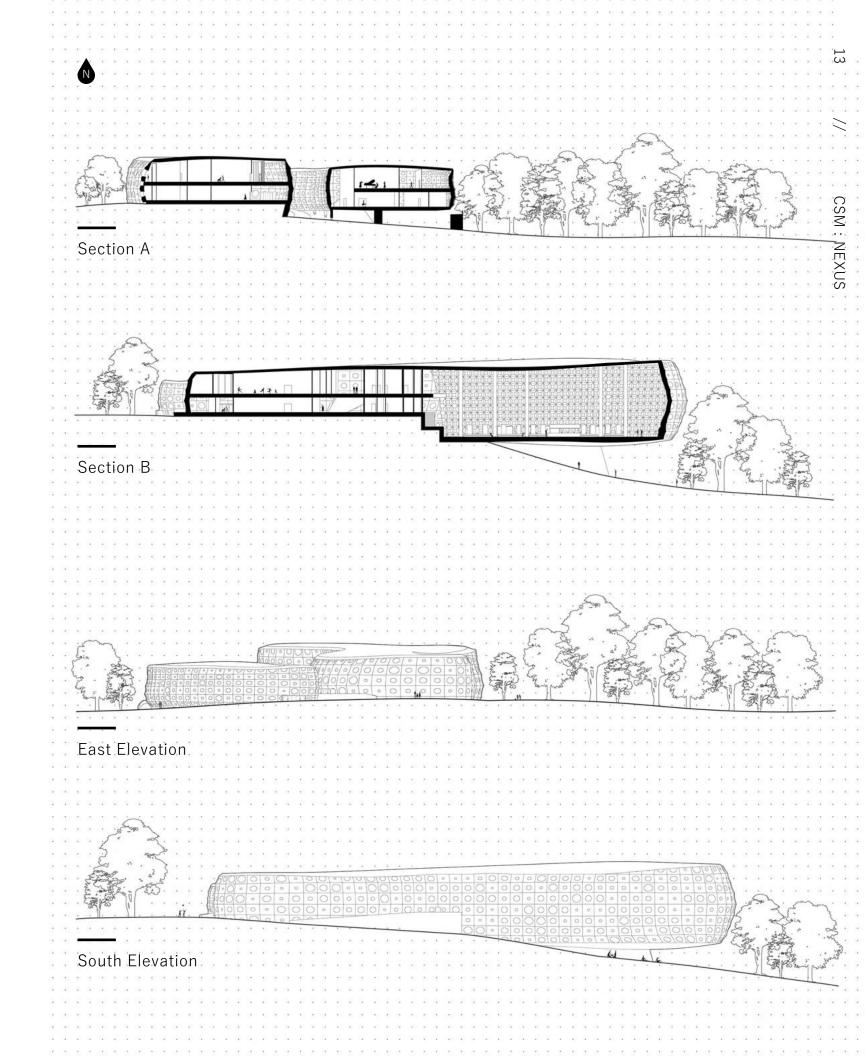


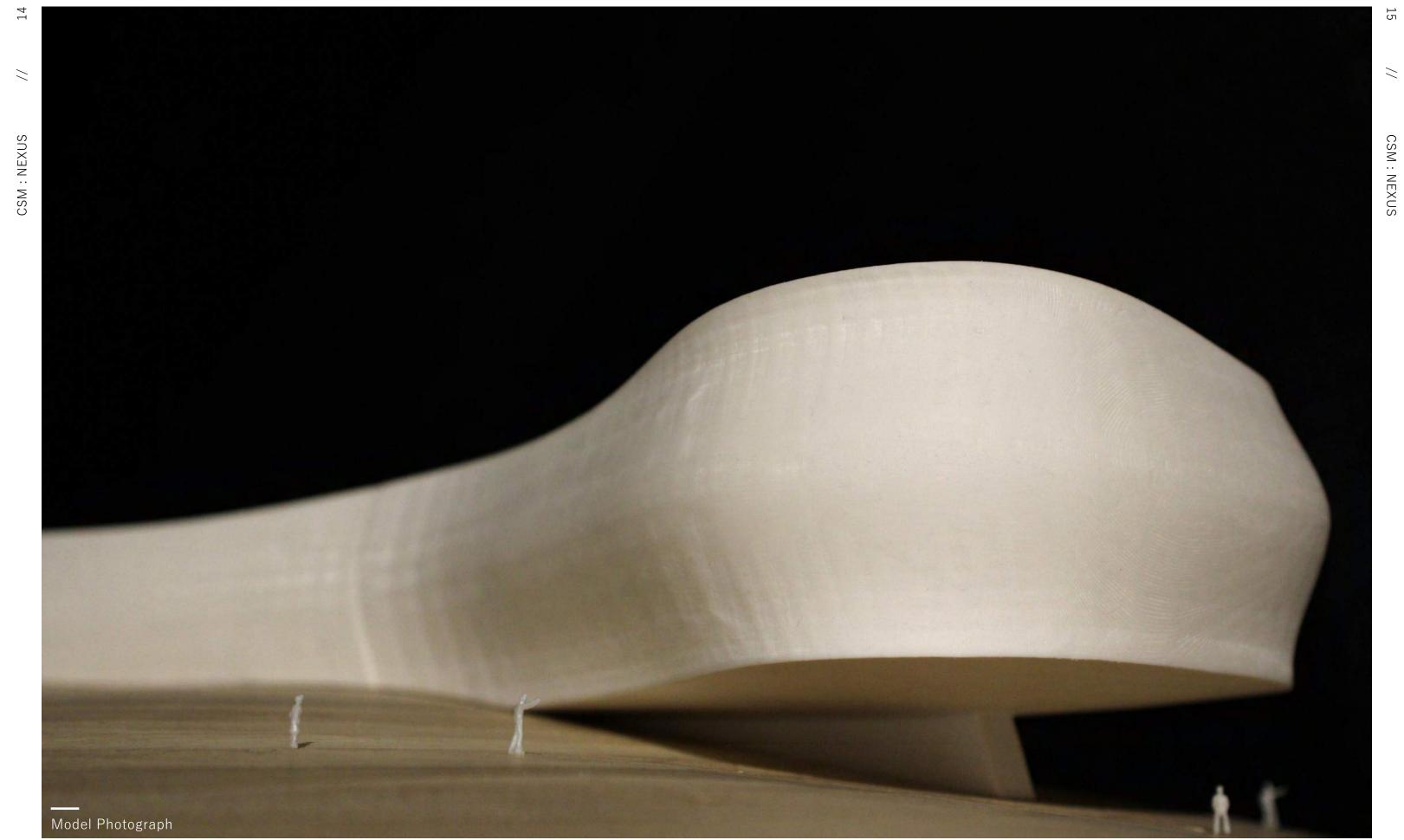


The Space Between

This design encapsulated the importance of the vast pathways of the Cranbrook Campus. Forming the architecture around existing pathways to highlight these areas and add to the experience when enduring the interstitial space between.







CHAOTIC CONTINUUM

Class Information

Bowling Green State University Salim Elwazani Design Studio 3

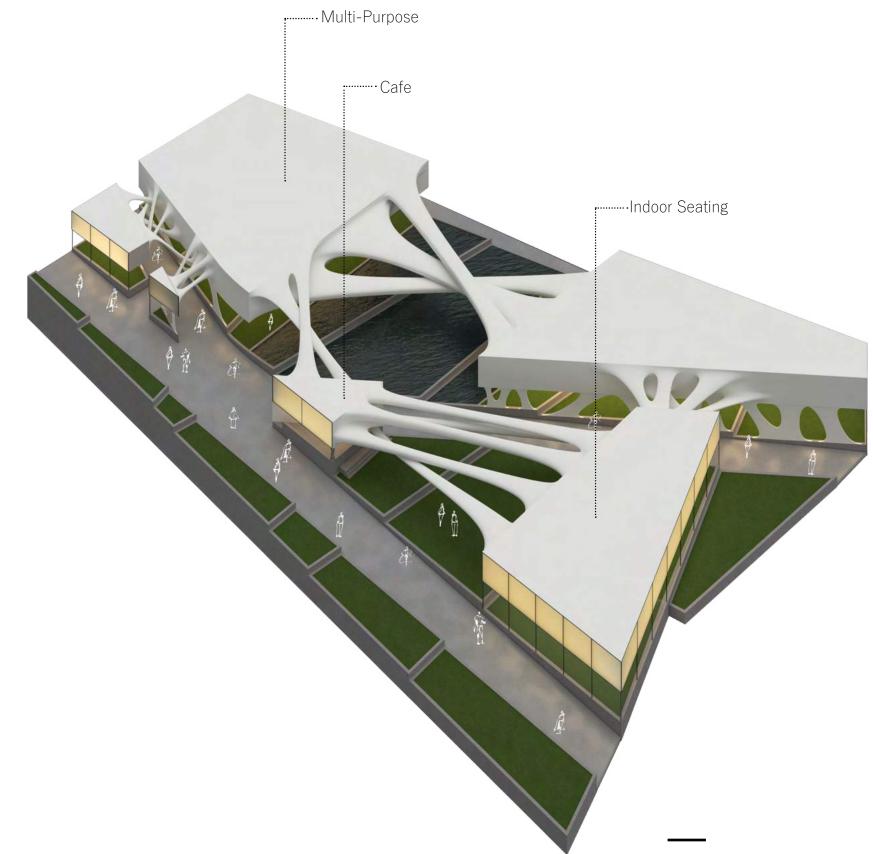
Project Location Helsinki, Finland

Methods Used Rhino 3d - Vray - Photoshop

Project Synopsus

The center square of Helsinki includes several different eras of architecture dating to 17th century up to neo-futurist architecture by Steven Holl. This adds deep rooted history and evolution of design in a minimally sized area.

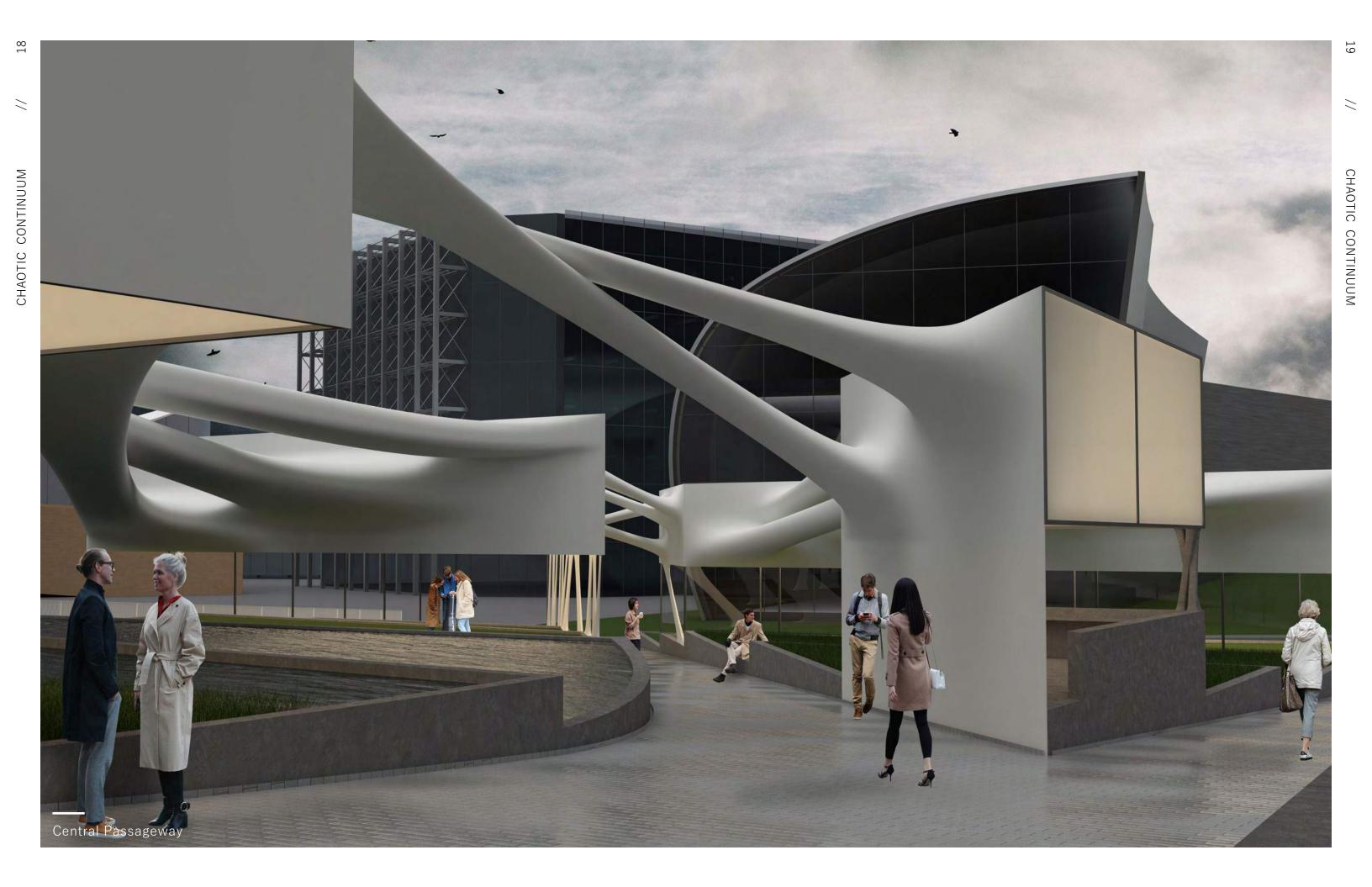
Helsinki being home to a wide variety of architecture that seemingly weaves together, it seemed fit to create a center pavilion representing that connection. Bracing the connection with a web system as overpasses to create a beautiful experience for the thousands that walk through this area a day on their commute.

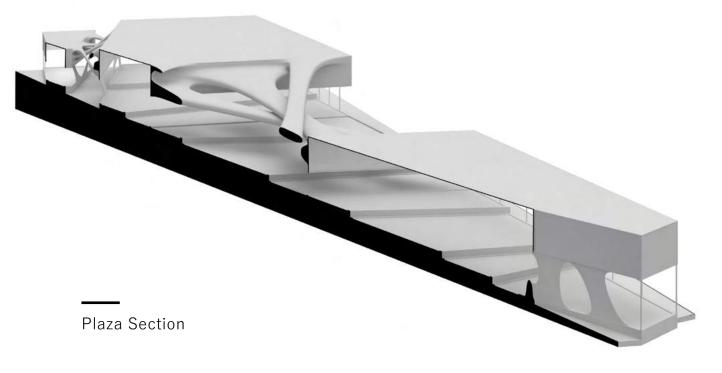


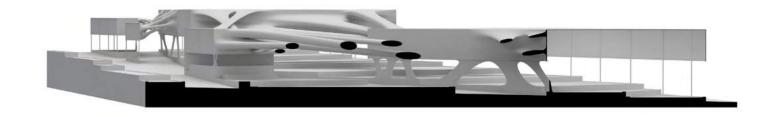
// CHAOTIC CONTINUUM

17

Axonometric







Bridge Section



REMNANTS

Class Information

Bowling Green State University Linda Beall Design Studio 5

Project Location Corktown, Michigan

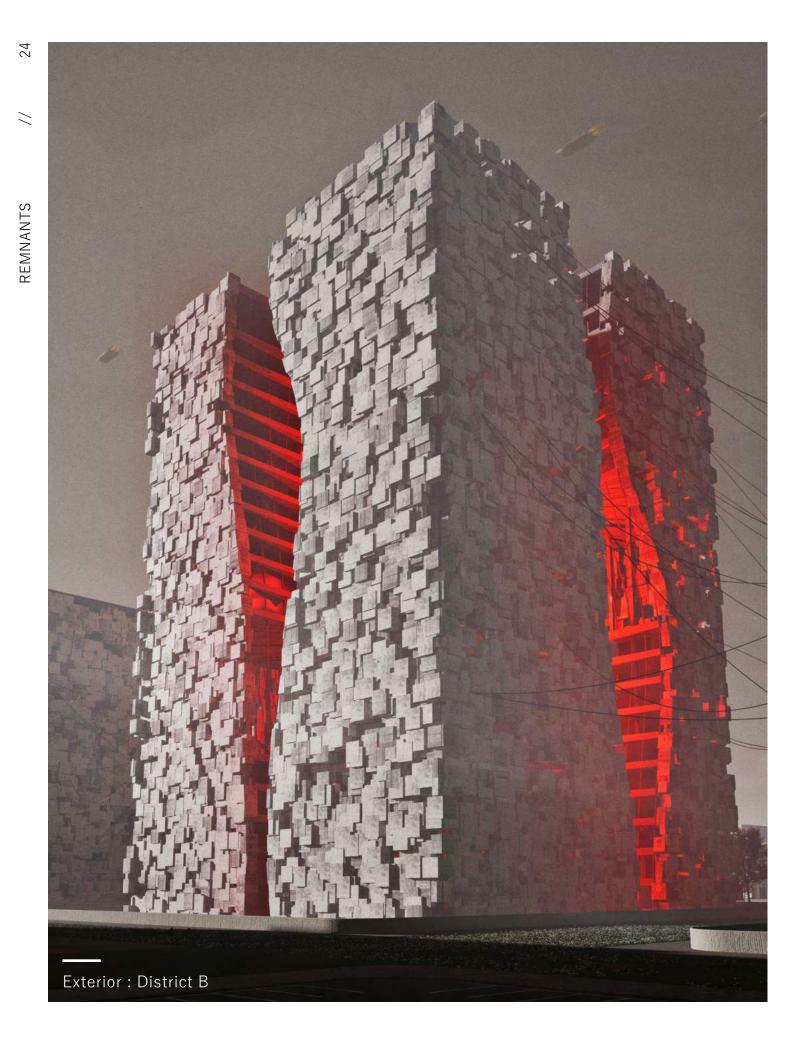
Methods Used

Rhino 3d - Revit - Blender - Cinema 4d -Vray - Unreal Engine

Project Synopsus

Detroit has been the capital of industrialization for most of its historical presence. In recent years Detroit has become more focused on contemporary design and compact living in the dense environment. Designing with this same intent, it had been important to express the past in the present while looking towards the future. Using brutalist, cubic forms on the exterior brings the phenomenology of the industrialization period, rooted deep into the ground as if it is unearthed history. Within the cluster of buildings presents an outlook of where Detroit is heading in the representation of the urban context.

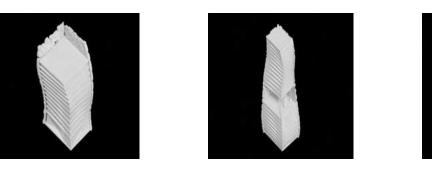




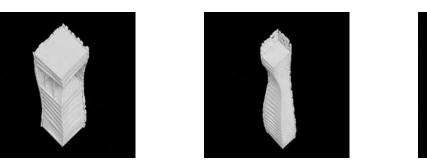




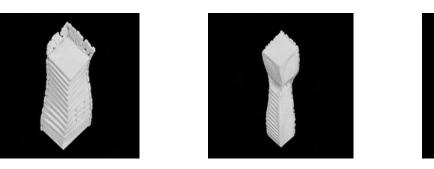




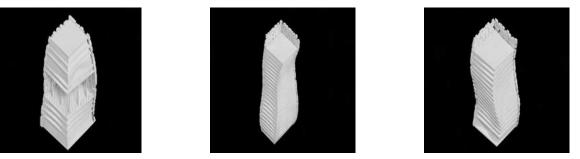








District Forms

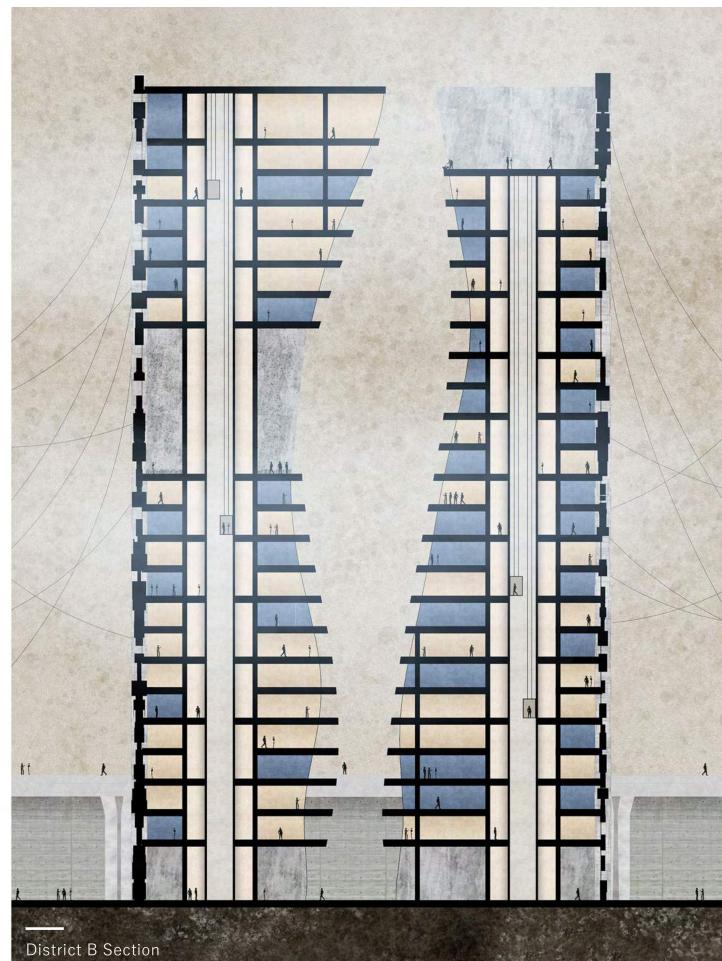


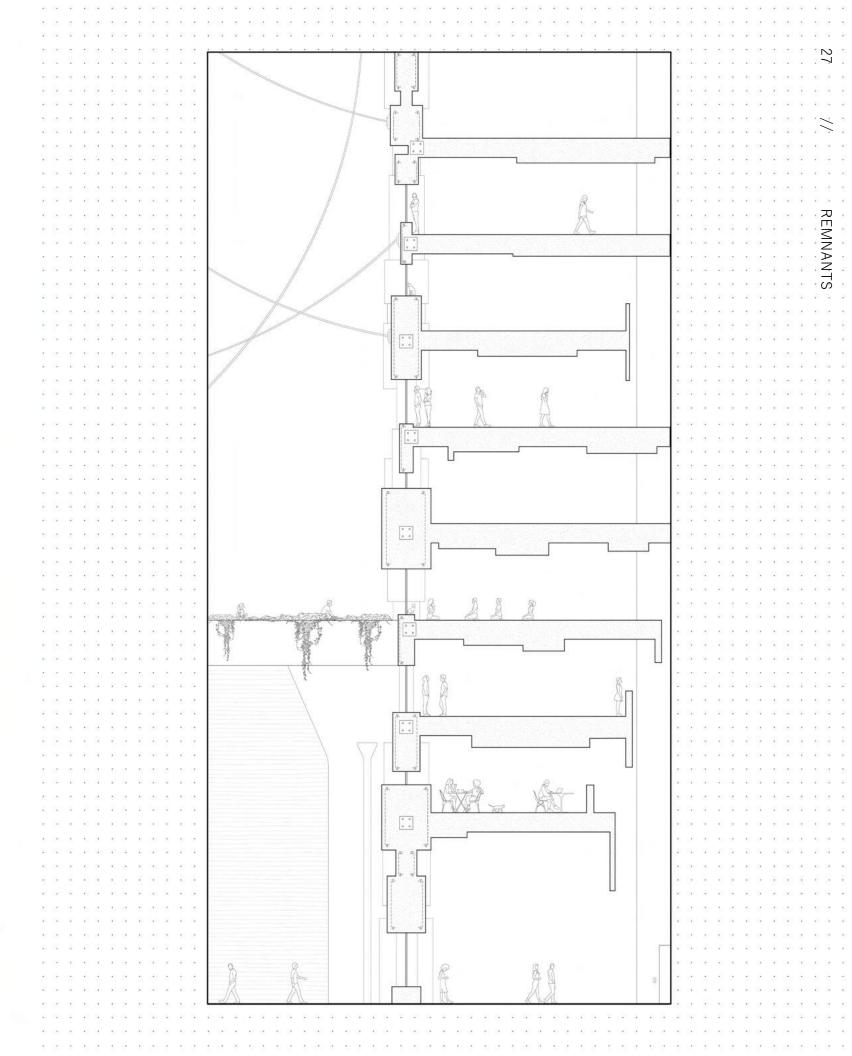


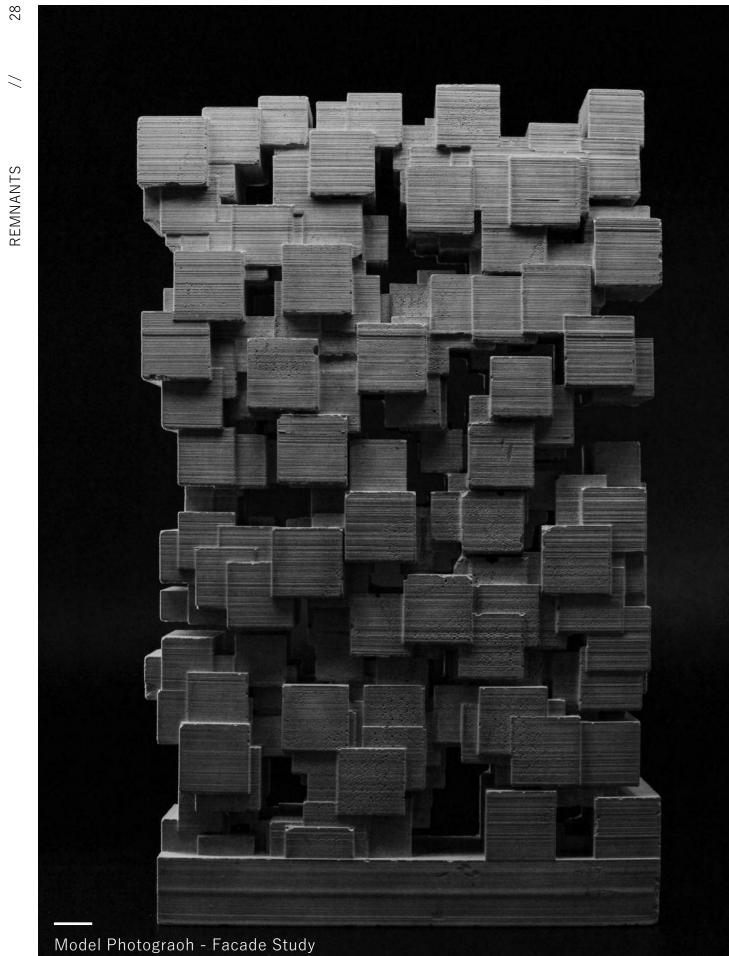










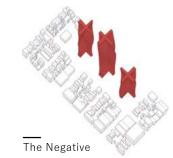




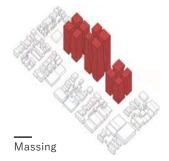














REMNANTS









//

From this section you will see a competition proposal submitted to Impact : Skyrise Competition 2022 which lead to receiving an honorable mention and 10th place overall out of a total of **700 participants**. Juried by Architects like Director of Zaha Hadid Architects, Chris Lepine, Director of MVRDV, Gideon Maasland, and Director of OMA UK, Carol Patterson, it had been vital to push the limits of design and sustainable uses.

 $\cap \mathbb{N} / \mathbb{D} \mathbb{F} \mathbb{T} \mathbb{T} \cap \mathbb{N}$







CARBON CITY: AN URBAN MACHINE

Competition Information

Impact : Skyrise 10th Honorable Mention Top 10 Overall / 700 Participants

Professional Work

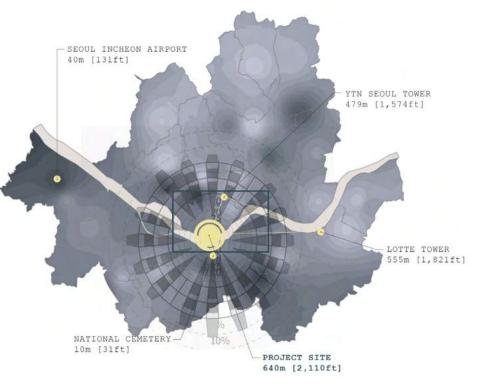
MKC Architects

Project Location

Seoul, Korea

Methods Used Rhino 3d - Vray - Photoshop





DENSITY / TRAFFIC

Daily Traffic Volume Bicycle Lane Length Street Trees Built vs. Open Space Mean Stories Mean Residents / Floor

32,162,000 781km 305,000 80% 30 246

SITUATING THE PROJECT

Both monolithic and robust, the form pays homage to its adjacent sisters: YTN & Lotte Tower. What was once mere architectural form is transformed into **climate-rejuvenating** superstructures aimed at reversing climate change.

INCOME

resident.

Mean Income Mean Net Worth Mean Housing Mean Housing / Income Residents > 30% Income

+ Almost half of Seoul's resident pay greater than

+ The average cost per housing unit is \$1,000 per

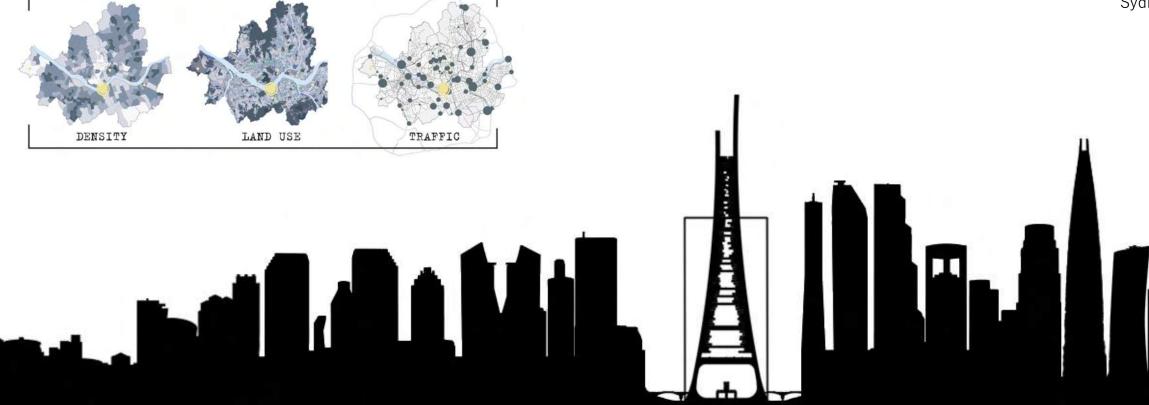
month, which is 33% of the mean income per Seoul

30% of their income on housing.

\$30,000 \$500,000 \$1.000 \$30-40% \$45%

+ Seoul emits the greatest amount of carbon in the World.

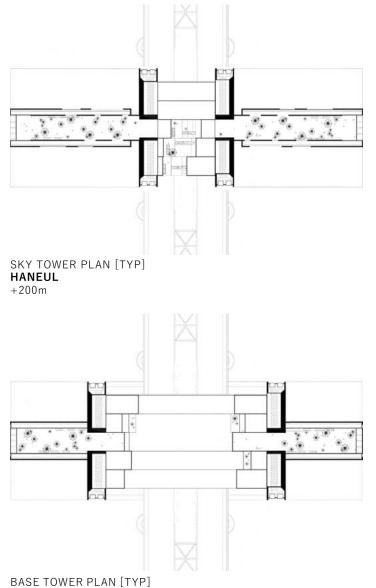
+ Seoul emits 5 times more carbon per day than New York City.



POPULATION

Population Adolescents Seniors Households Foreign Population Homeless Population 9.77million 1.5million 1.6million 3.8million 225,000 3,400

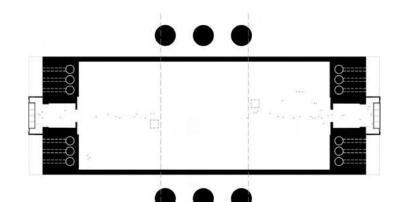
+ Almost 50% of the entire country's carbon output comes from Seoul. The second closest was Sydney, Australia at 34%.



The Sky Tower Levels [Haneul] compose the upper-most portion of the skyscraper, known as Vernacular Village 3. This area is the most dense area of the skyscraper, featuring 20 stories of tightly packed housing and support buildings.

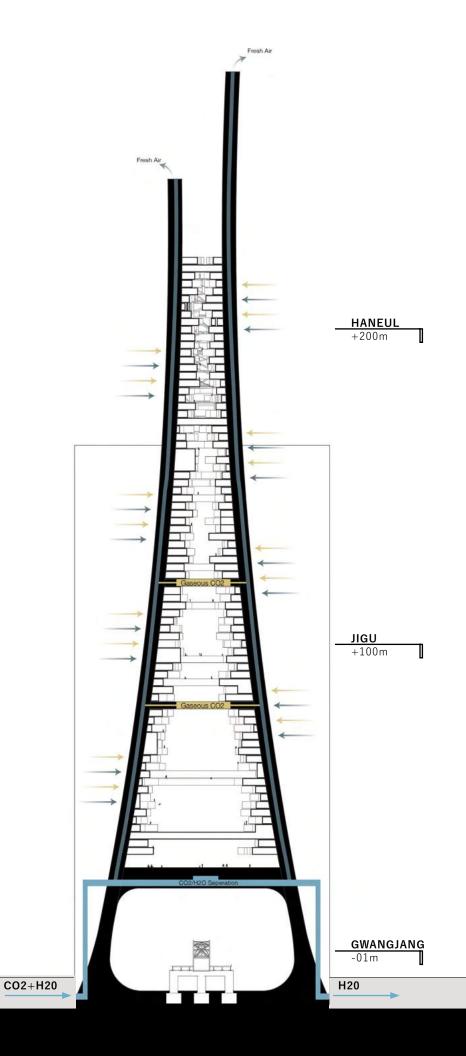
The Base Tower Levels [Jigu] contain Vernacular Villages 1 & 2, as well as the building's Main Park. Immediately underneath the Main Park is the WAC System and Carbon Battery. There are 48-stories of housing and support programs in the Base Tower Levels, spread out over 12 Park Connectors.

BASE TOWER PLAN [TYP] JIGU +100m



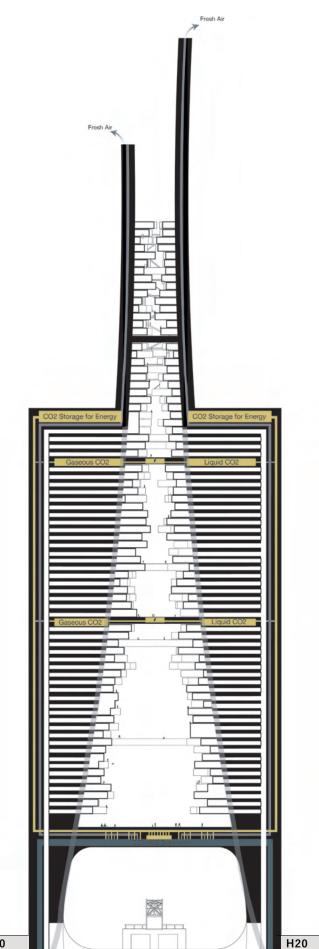
The Plaza Level [Gwangjang] is the transportation hub [Metro Line 4] and building access point through a centralized plaza. As the building straddles the Dongjak Bridge in the Han river, the building complex is accessible by both boat and metro.

PLAZA LEVEL GWANGJANG -01m



INTEGRATED BUILDING SYSTEMS

 \geq

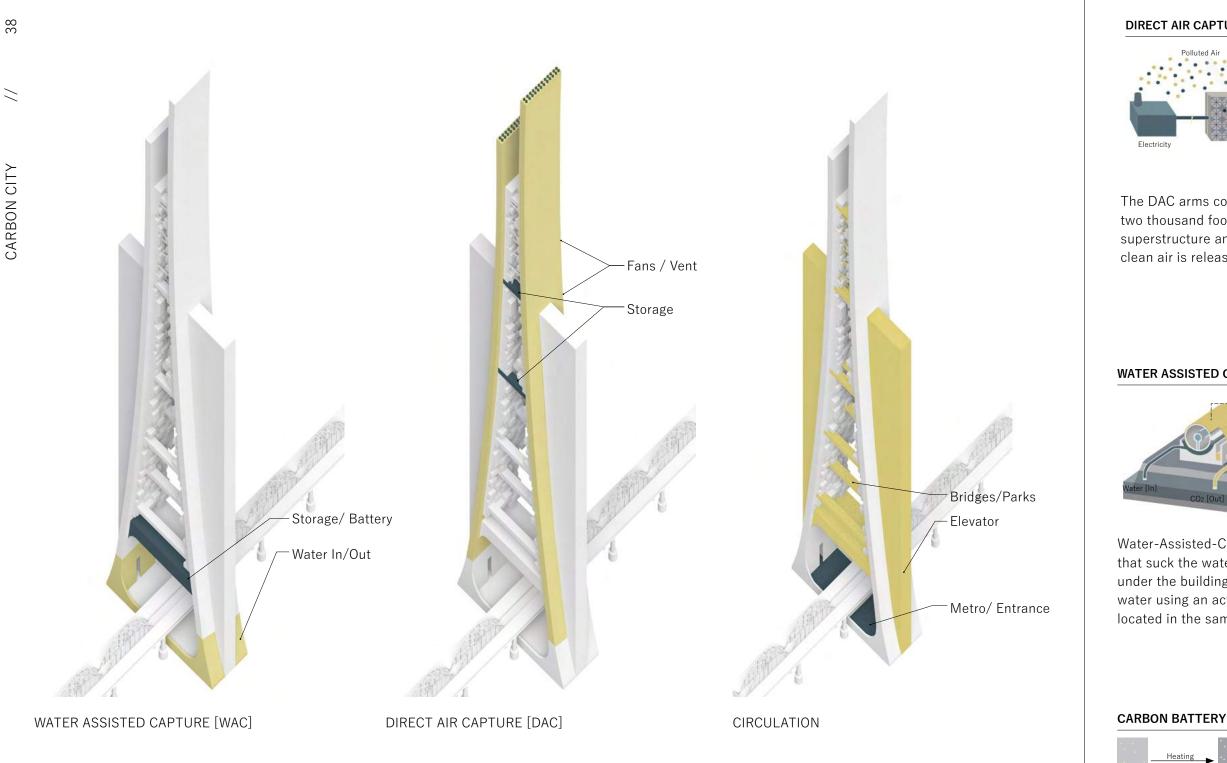


CO2+H20

37

 \geq

CARBON CITY



CARBON CAPTURING METHODS

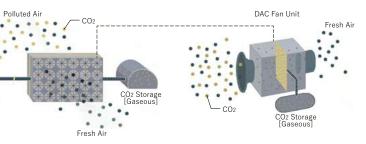
Beyond appearance, the primary building elements are optimized for their specific function - from the symmetrical arms that serve as the DAC system to the circulation towers that also provide structural integrity for the building.

Each of these systems are open-loop systems integrated within, and supporting the architectural spaces within the building.

The carbon battery converts carbon between gaseous and liquid forms using high pressure hot storage - depending upon energy needs. This produces a high-pressure carbon gas that is then used to drive the turbine and create electricity. The clean [carbon-less] water is used to irrigate plants and vegetables throughout the Carbon City project.

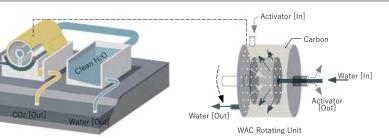
Charge Turn air into liquid

Cooling

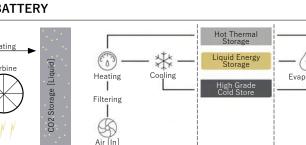


The DAC arms contain a total of 800 fan units along the four two thousand foot arms. Captured carbon is stored within this superstructure and used for powering the generator while the clean air is released back to the atmosphere.

WATER ASSISTED CAPTURE



Water-Assisted-Capture happens using twenty-four vacuum pumps that suck the water into the WAC Rotating Units located directly under the building's Main Park. The carbon is spun out from the water using an activator, and then transferred to the carbon battery located in the same location.



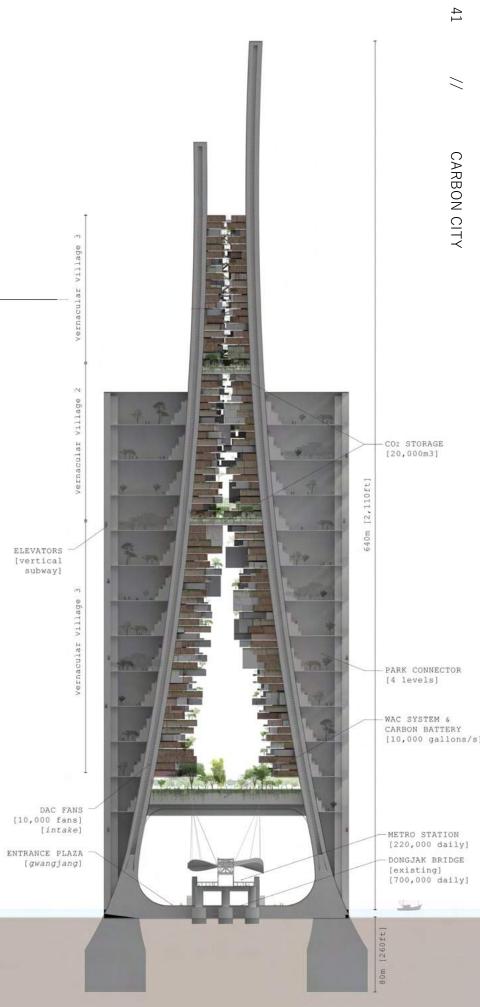
Storage

Expand liquid into gas



VERNACULAR VILLAGES

A vertical city, the project features nine types of decentralized programs - each prefabricated and interchangeably connected to the 'carboncrete' skyscraper.



In this section you will see some of my first projects in undergraduate that had been the basis upon the use of unknown design software and new techniques that would benefit my career at an early stage.

VIGNETTE PROJECTS VIGNETTE PROJECTS VIGNETTE PROJECTS

//CNETTE DDOIEOT

Portfolio 2023

All work was completed from 2021-2022

STUDIO 4

Class Information

Bowling Green State University Lindsey Stough Design Studio 1

Project Location

Osaka, Japan

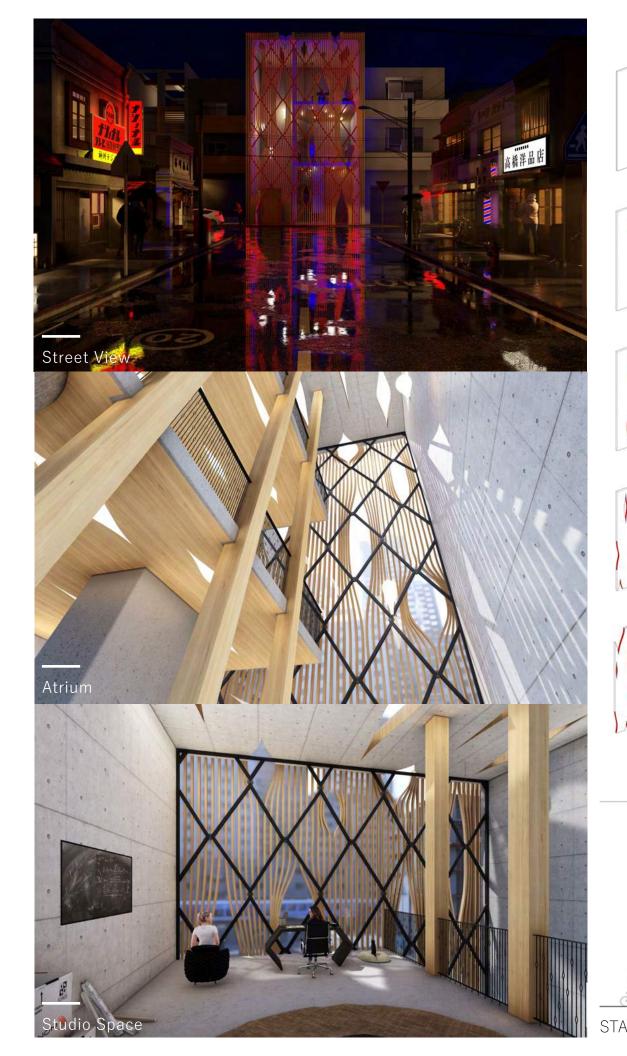
Methods Used

Sketchup - Rhino - Grasshopper - Lumion

Project Synopsus

As population grows so does the need for land and resources. Osaka, Japan has one of the densest urban areas in the world and continues to grow each year.

The purpose of this design is to be built in different locations throughout the world ranging from low population to high population. The signal points that change is the main facade of this studio space. The concept of urban corruption within the environment is most prevalent by the sudden gaps in the natural cascading wood. Beyond these gaps expose the cold design features, such as steel, glass and concrete representing the urban corruption of natural environments.



STAGE ONE

Urbanization and population growth within cities begins to take over environmental areas, giving us first signs of corruption within a natural environments

STAGE TWO

As population continues to grow, more urban spaces are needed and less environmental areas a protected from destruction to make use as a new settlement



STAGE THREE

The urban settlements start multiplying and growing at faster rates, gaining more speed on corruption of the natural environment



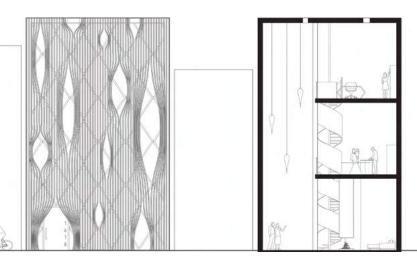
STAGE FOUR

Urbanized settlements begin to reach the end of environmental areas to corrupt leaving loose ends and sudden stops in expansions



STAGE FIVE

Urbanization has caused corruption and depletion of the environment to become irreversible and limited at this stage



STUDIO 4

 \geq

45

STAGE FOUR

THE ALLEY HOUSE

Class Information

Bowling Green State University Andreas Leuscher Design Studio 2

Project Location New York, New York

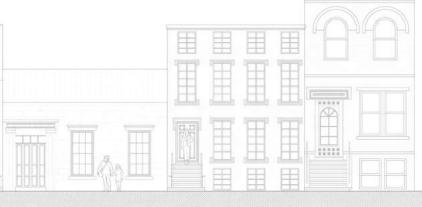
Methods Used Sketchup - Rhino - Grasshopper - Lumion

Project Synopsus

Facing challenges of dense urban life as a parkour artist, it becomes hard to traverse the rooftops freely. This brought the design of a parkour house to a thin alleyway in New York City.

This design is built on a 15 X 95' plot on an existing alleyway. The parkour artist occupying the space has indoor parkour platforms to practice on throughout the space as well as areas that represent the feeling of normal routes throughout the city. This residence brings the feel of soft clothes hanging overhead and fire ladders within an alleyway to the indoors in a futuristic and minimal fashion.





Curation.of.alex's purpose is to create art everyday to both improve my artistic skill with softwares, but also have an outlet to store my creative imagery.

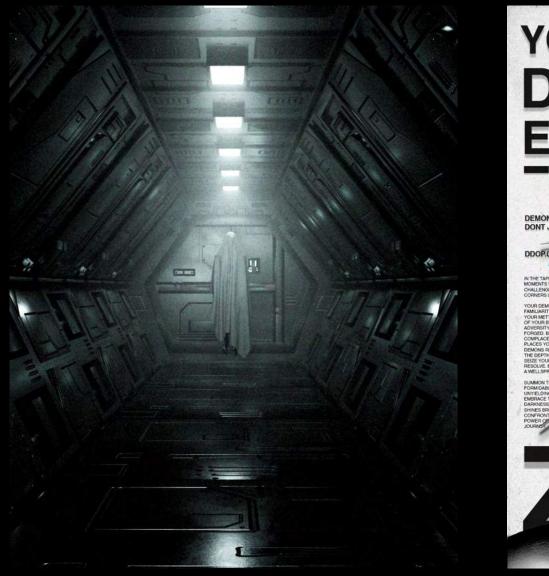
@CURATION.OF.ALEX @CURATION.OF.ALEX

@CURATION.OF.ALEX

 $\bigcirc \cap | | R \Delta T | \cap N | \cap F \Delta | F X$

All work was completed daily during 2023







The Waiting Room

Demons



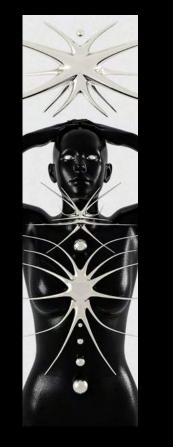
The Remnants Between















































Taking my love for Japanese minimalism and lighting fixtures I had created a piece that challenged known skills further.

 $\Lambda/\Omega \cap \Box \Lambda/\Omega \cap \Box \cap \Box$

All work was completed during 2023 inside a Furniture Design Studio

WOODWORKING WOODWORKING WOODWORKING



Natural Warmth

-Replaceable Shade

Curly Maple Wood

-----Curved Edge Profile



