# PORTFOLIO.

tatiana estrina

Internship Application Portfolio Selected Works 2016 - 2021

# CONTENTS. UPROOT ACSA/AISC Steel Design Competition Winner • • • • • • • • • • • HOUSE FOR J.S. BACH ARC901 Academic Project . . . . . . . . . . . TRIPIX Design Build for Icebreakers Festival ......... p. 10 - 11 HART ISLAND OSSUARY ACSA/AISC Steel Design Competition Winner ......... p. 12 - 14 **CAVE HOUSE** ACSA House for the 21st Century Competition ...... p. 15 - 17 **DISTORTED PROJECTIONS** ASC901 Academic Project . . . . . . . . . . . . p. 18 - 19 **PHENOMENEUROLOGY** 'Thinking' Non-Architecture Competition . . . . . . . . . . . . OCAD SCHOOL OF DESIGN ASC601 Academic Project . . . . . . . . . . . . p. 21 - 22

## STRATUM

Design Build for Grow Op Exhibition



#### TRANS - PIER™

ACSA/AISC Steel Design Competition Winner



#### VELA

Tatiana Estrina

LEED Green Associate

testrina@ryerson.ca 416-473-7001

24 Rosetree St,

Richmond Hill ON,

Canada, L4S 1J7

Professional Project at PARTISANS



#### RESEARCH WORK

Projects completed as a Research Assistant



#### CREATION OF A MINE

Initiated by the gold rush in the early 1900s, mining sites in Canada were erected along the various remote sites, including around Porcupine Lake in Timmins, Ontario.

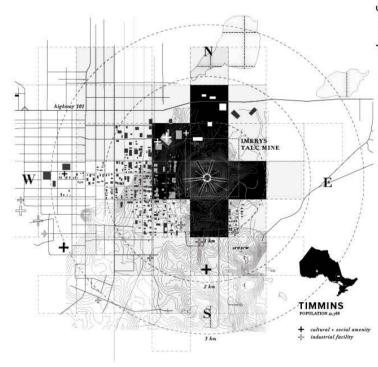
#### GATHERING OF A TOWN

Large communities sprung up around mining sites to service the families of those working in the industry: Today, many mines are on the verge of closing down due to a shortage of minerals.

#### RETIREMENT

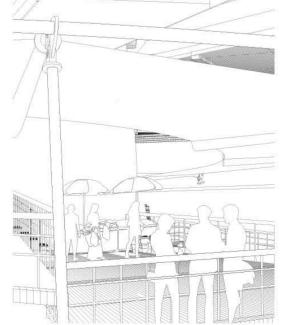
By Ontarian law, mining companies are given 5 years to re-vegetate the areas of closed mines. After this period of time, the land is often left unkempt and unusable.





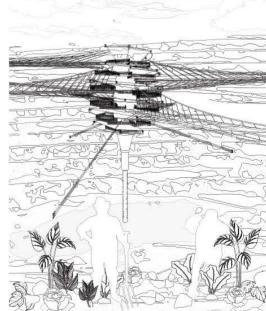
## EDUCATION + RESEARCH

to educate the community about mining history.



#### CULTURE

A hub for research and farming advancement, the Serving as a gathering place, the hub provides ample room suspended pod contains museum and auditorium spaces for social and cultural activities including conference rooms providing residents with land to grow fresh produce, for as well as sites for framer's markets and festivals.



#### AGRICULTURE

their own consumption and as a source of income.

#### CONTEXT LOCATION SOFTWARE

Timmins, Ontario

ACSA/AISC Steel

Design Competition

Rhino, Grasshopper, Illustrator, Photoshop

**UPROOT** 

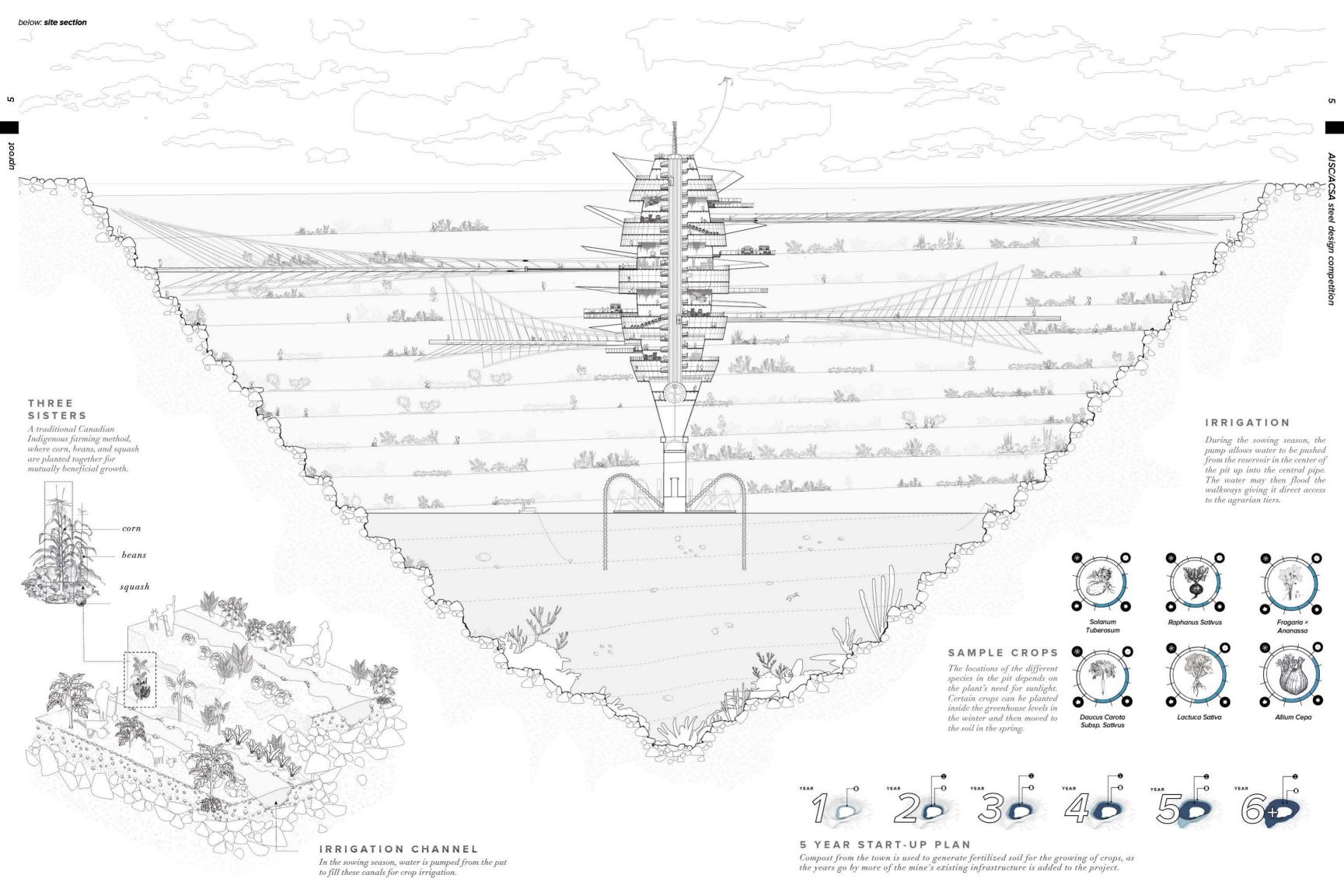
ONCE A MINE, NOW A GARDEN

In anticipation of the closure of several northern Ontario's mines, UPROOT provides a structure with an alternative use for these areas. The intervention calls for the redevelopment

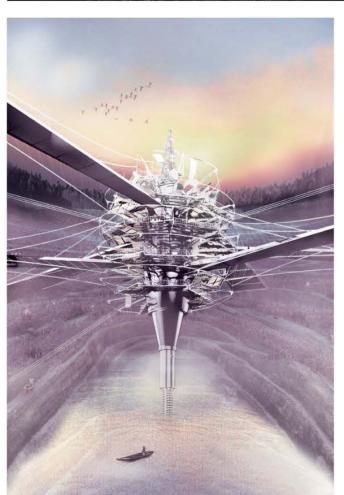
of open-pit mines into stepping community farmland, offering new possibilities for its use after closure as a suspended hub for agricultural and social activities.

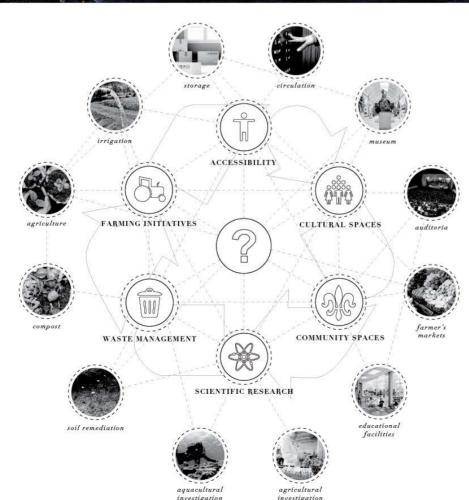
2018

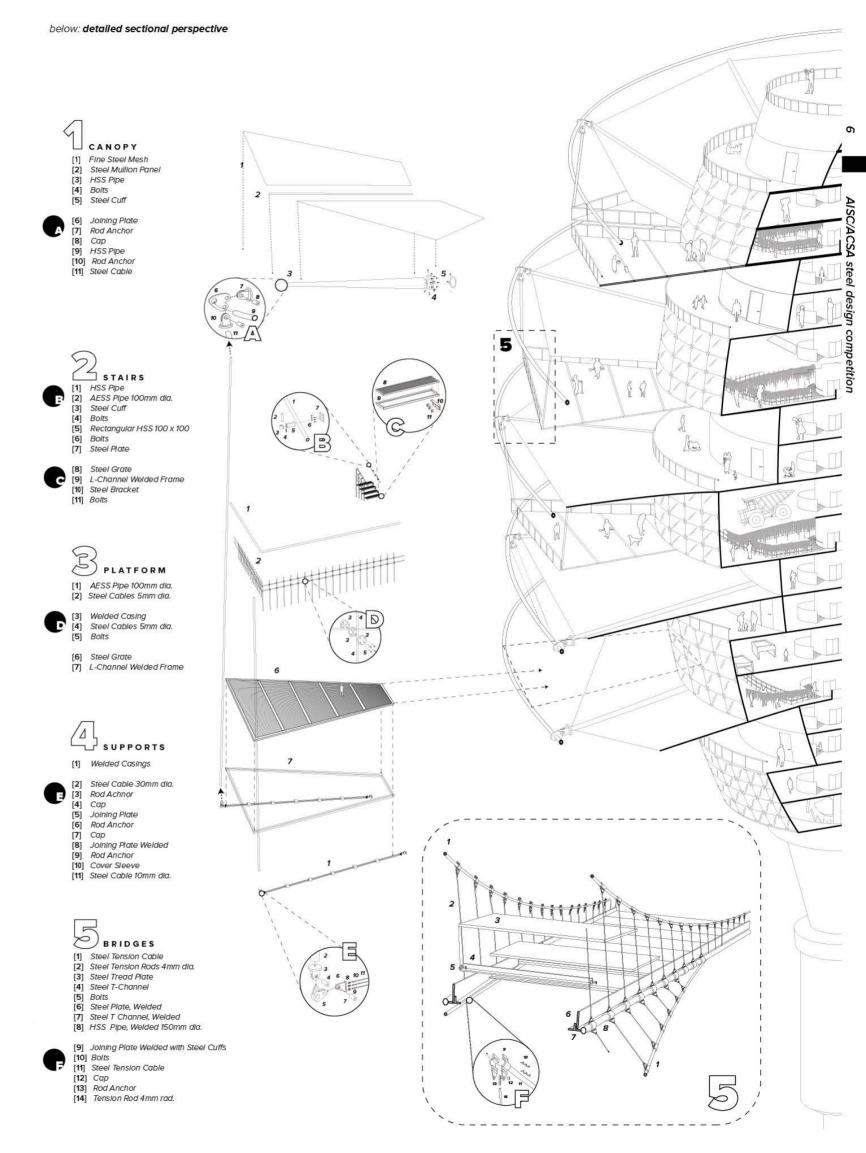
(CTBUH)













# CONTEXT

Academic Project ARC 920: Advanced Architecture Studio LOCATION

Island on Lake Konigesse, Germany SOFTWARE

Rhinoceros3D, Grasshopper, Illustrator, Photoshop, 3ds Max, Corona Render SUPERVISOR Dr. John Cirka



#### PLATO'S CAVE

Plato theorized that humans view mere shadows of the reality, only by emerging and viewing the light do they view factual forms.



#### RELIGIOUS CAVE

Within religion, light acts as an apparition or religious revelation. In order to reconnect with the light, many monks retreated into solitude of deserts or caves.



BACH'S CAVE

The house becomes a place for religious edification through the fragmentation and submergence into a primal environment.



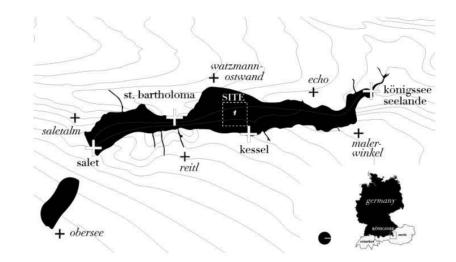


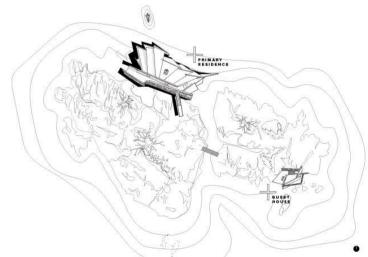
subject

#### FUGAL STRUCTURE

Bach is well known for his Fugue compositions, musical pieces created using overlapping voices. As the organ instrument provides the organist with multiple manuals, the fugal structure capitalizes on this multiplicity

by overlaying repeating melodies in different keys, thereby generating counterpoint. This music structure is explored as an organizational approach for the architecture through play with fragmentation.

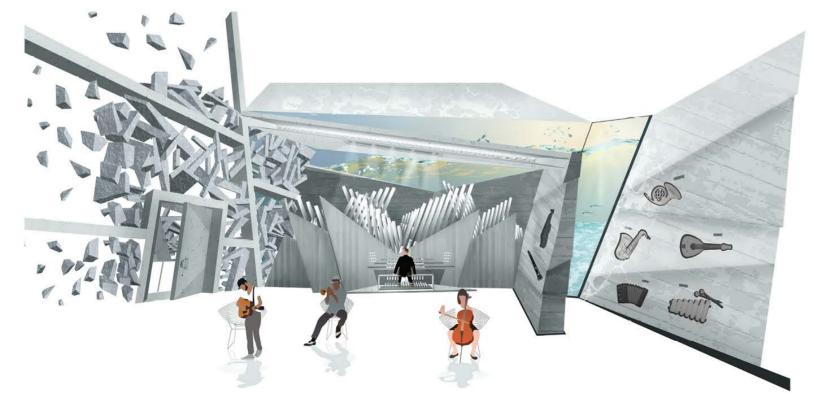






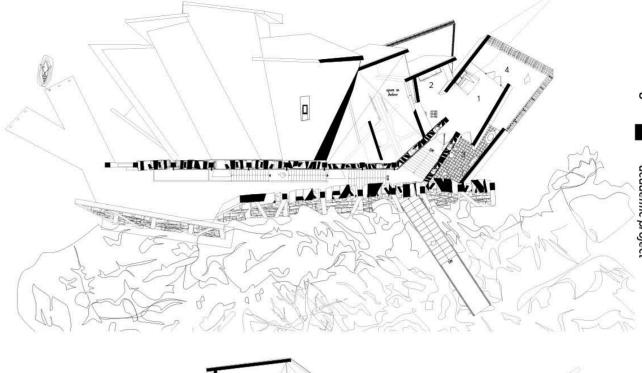


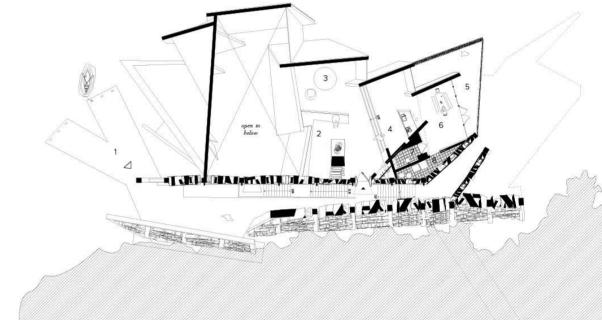




left: bedroom perspective right: **private spaces plan** + 4m above water level

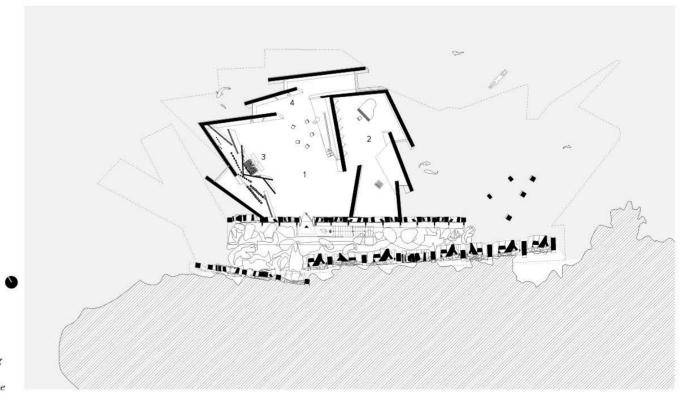
- [1] bedroom resting
  [2] closet dressing
- [3] bathroom grooming
  [4] balcony observing





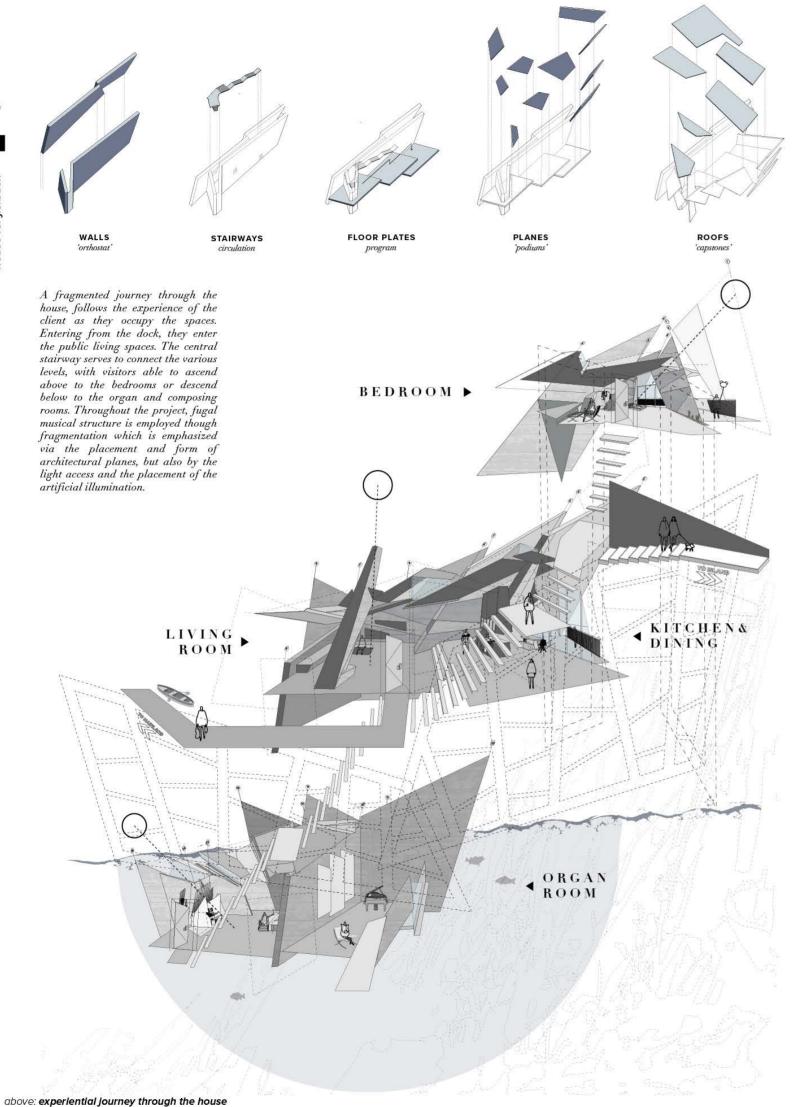
left: living room perspective right: living room plan + 1m above water level

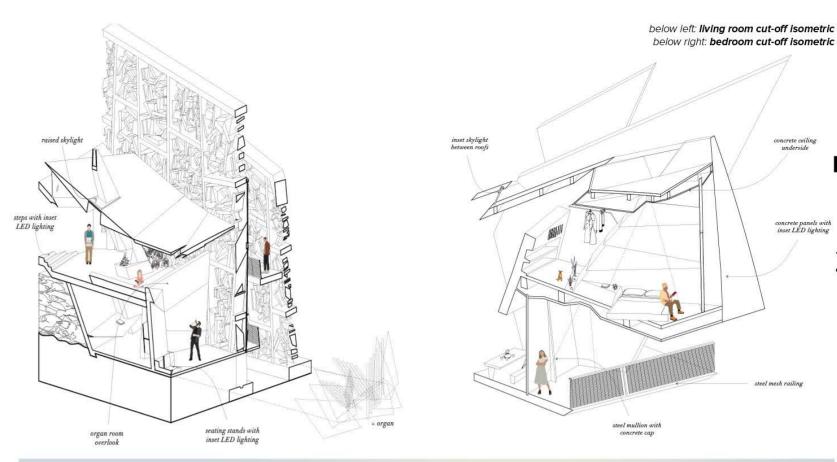
- [1] dock arriving
  [2] living room socializing
  [3] library reading
  [4] balcony observing
  [5] kitchen cooking
  [6] dining room eating
  [7] water closet grooming
  [8] mechanical supporting

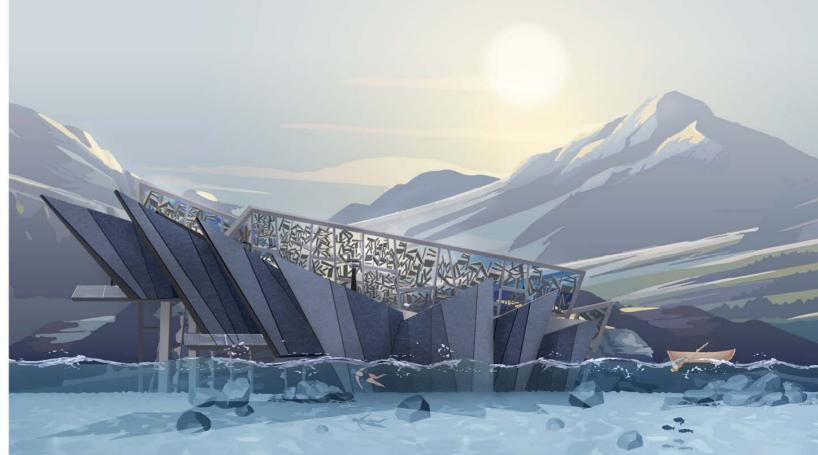


left: music room perspective right: music spaces plan

- 4m below water level
- [1] music room playing
- [2] writing room composing [3] organ - playing
- [4] instrument walls storage

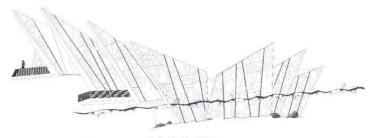






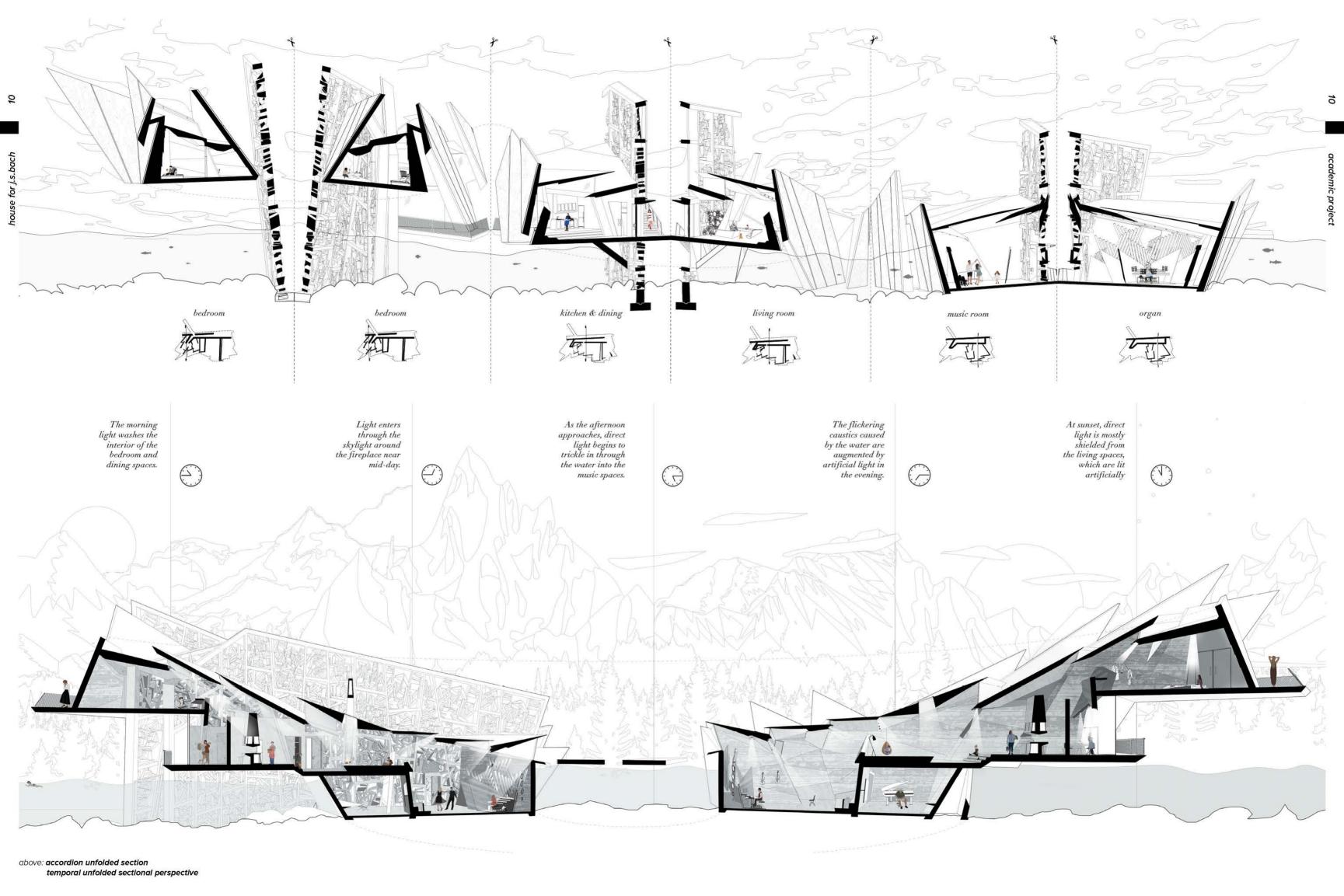


The stairway between the orthostat walls connects the various programmatic levels to the two access points into the building, the first from the water through the dock and the second from the island itself.



FACADE

This facade most prominently embodies the ideas found in the fugal structure, with the two wall typologies serving as an overlay onto one another while retaining a similar architectural language.



# TRIPIX

### ICEBREAKERS FESTIVAL

This design brings the idea of the ocularcentic experience of architecture to light through the faceted reflective interior condition. The viewer experiences the space as a reflection back on themselves, in many different lights and angles while also being intertwined with the reflections of the exterior conditions. It encourages people to interact with it by taking images and looking through the funnel-like apertures to view notable Torontoian landmarks such as the CN Tower, Wave Deck, Lake Ontario, and Rogers Center.

2019



Project Photo Credits: Arash Ghafoori, Gregor Tratnik and Devanshi Jagota

#### CONTEXT

Icebreakers 2019 + CelebrateTO Festival

HTO Park East, Toronto +
al Nathan Phillips Square,
Toronto

LOCATION

#### SOFTWARE

Rhino, Grasshopper, RhinoCAM, Rhino Nest, CNC Router

#### COLLABORATORS

Gloria Zhou, Thomas Gomez, Vivian Kinuthia, Florencio IV Tameta, Zeenah Mohamed Ali

#### ROLES

Design iterations, testing materials, parametric modeling with Grasshopper, fabrication files, fabrication, installation, project coordination and management



#### FRAMING THE CONTEXT

Surrounded by some of Toronto's most famous landmarks, the openings within the panels frame views of the buildings for visitors.



#### STRADDLING THE PATH

Located at a fork in HTO park, the three wings straddle the path, creating a sense of place for a location that is otherwise a method of transit.



#### OCULARCENTRISM

Reflectivity and form allow for photography of oneself superimposed over context landmarks and the pavilion's form.











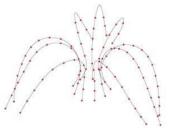




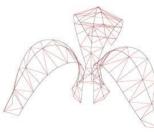




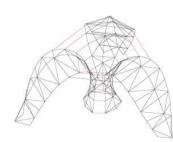




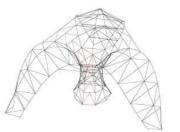
 $Splines\ subdivided\ into\ conduit\ segments$ 



Conduit cross members created by joining endpoints of splines



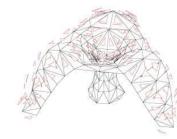
Lists of endpoints are flipped in order to draw bracing between initial splines



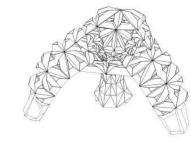
Additional members are added for stability



Surfaces created for each panel



Surfaces are offset and scale relative to a central attractor point

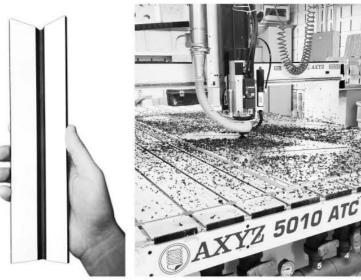


Edges of the two sets of surfaces are lofted to create the panel forms

above: formal iterations scripting process





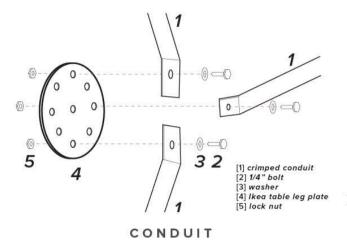




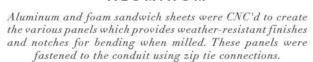
FLANGE



COLUMN



# ALUMINUM

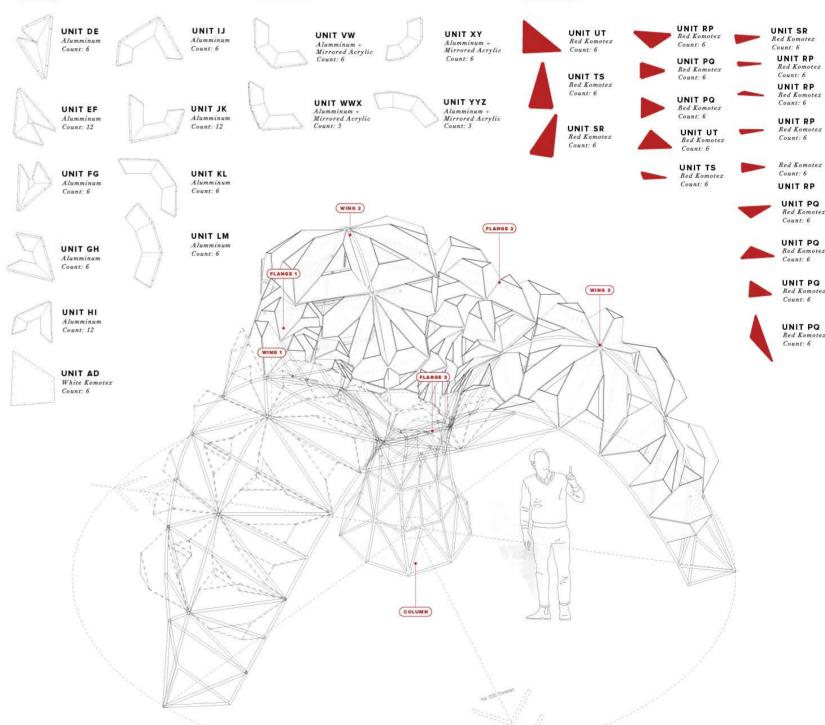


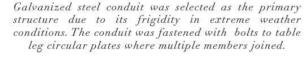


Mirrored acrylic inside of the flange panels add reflectivity, allowing for ocular-centric experiences.



WING







ASSEMBLY

Bolts were used to attach The main components (wings the various pieces of conduit and column) were preassembled to create frame. together and to the steel plates.



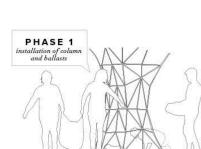
ERECTION PANELIZATION

Panels were inserted within conduit frame using zip-tie connections to secure them.



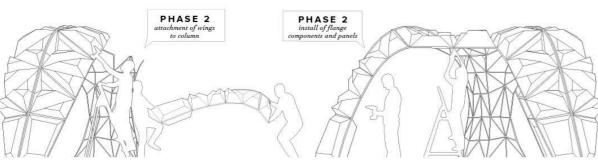
SITE INSTALL

The four main components were transported to the site for final assembly.



FABRICATION

Conduit was cut to specified lengths, crimped and then drilled.





hart island ossuary

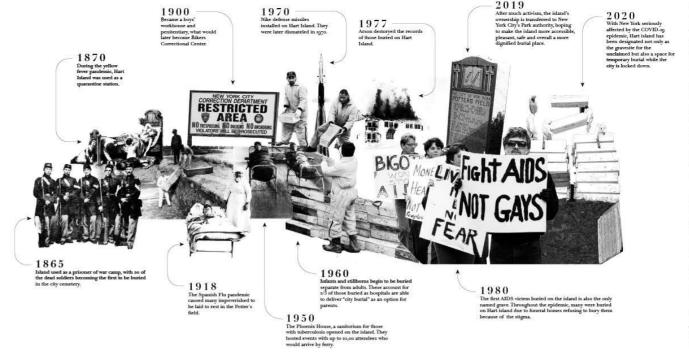
# HART ISLAND OSSUARY

#### FORGOTTEN MILLION, NOW REMEMBERED

Being a large city, New York not only has a large impoverished population, but also frequently experiences waves of disease. In order to deal with the death toll, the city began to bury bodies on Hart Island, a small isle on Long Island Sound. Hart Island Ossuary offers a proposal for an open-air visitors center, memorial and observation tower allowing guests to get panoramic views of the massive grave site while also taking the millions of dead out of anonymity.

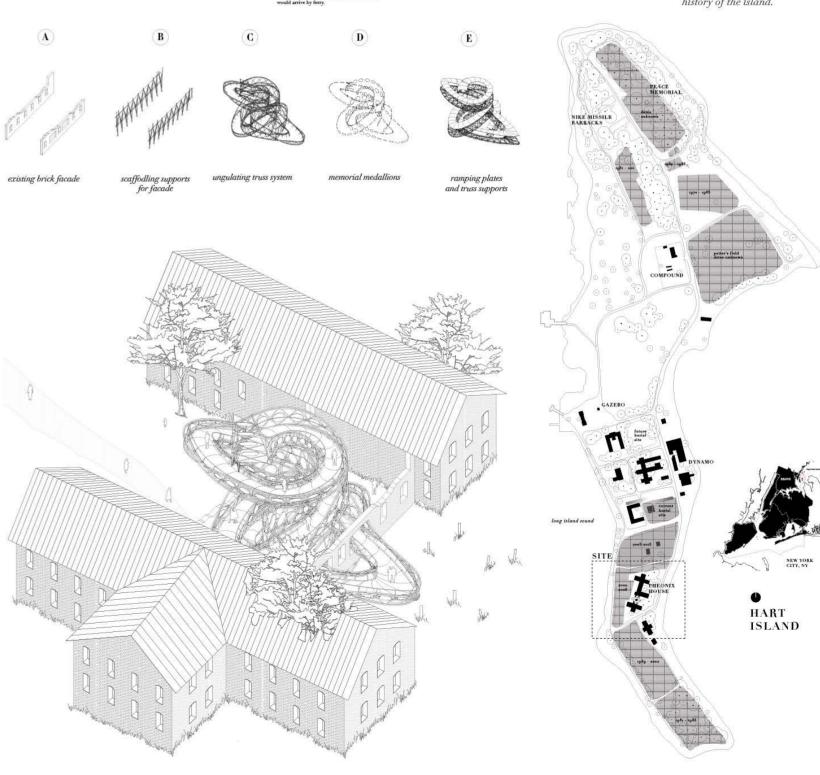
2020





The island sports a collection of dilapidated buildings and fields of buildings and fields of enumerated posts, each representing 150 bodies. Until recently, the island was under the jurisdiction of Rikers Correctional Center, with inmates working to bury the dead. In 2019, the island was passed over to the parks department, to create a public and pleasant cemetery space for visitors and tourists alike.

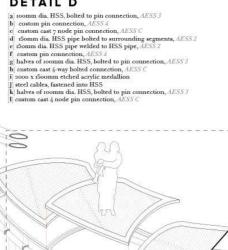
Due to the unmarked graves and the few accessible roads on the island, grave visitors may not be able to reach their loved one's resting place. Taking advantage of the ruins of the former Phoenix House, the ramping structure weaves below, through and above the crumbling brick facade, commemorating not only the dead but also the history of the island.













DETAIL D

DETAIL E

[a] 75mm dia bent HSS, welded, AESS 2

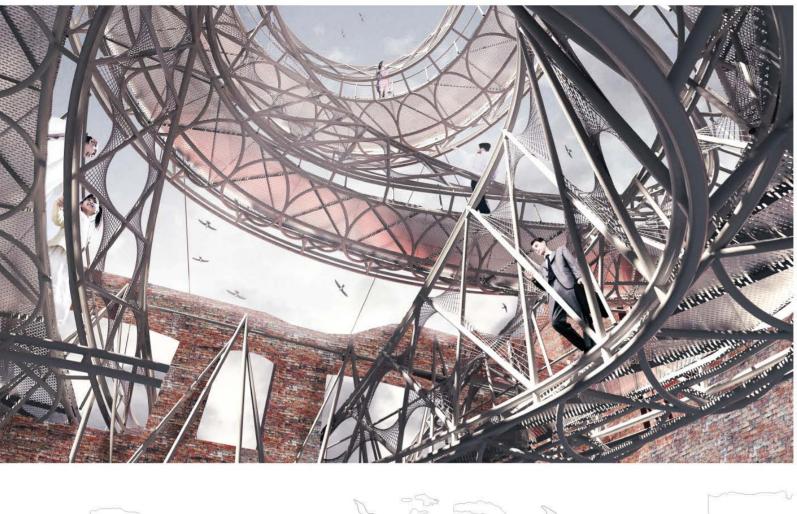
[b] fromm dia HSS pipe bolted to surrounding segments, AESS 2

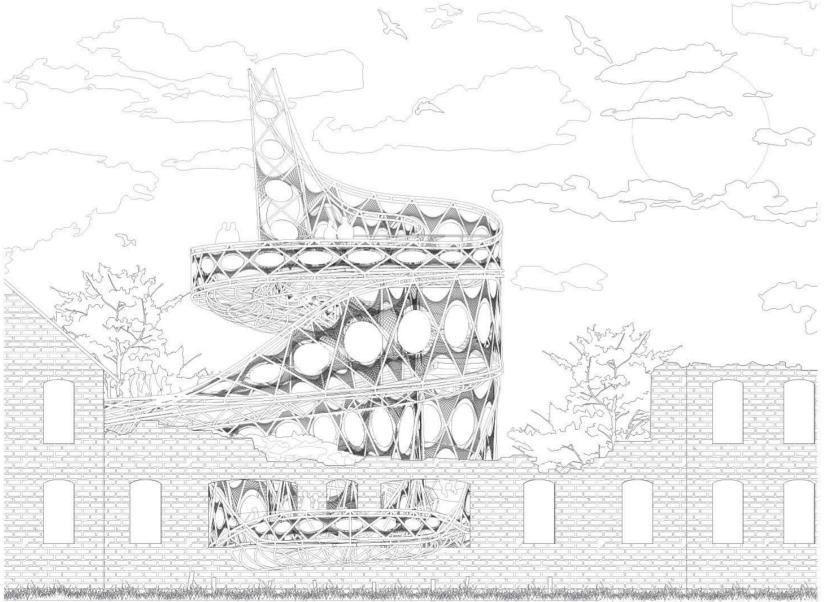
[c] 70 x 50mm bent L Channel, AESS 1

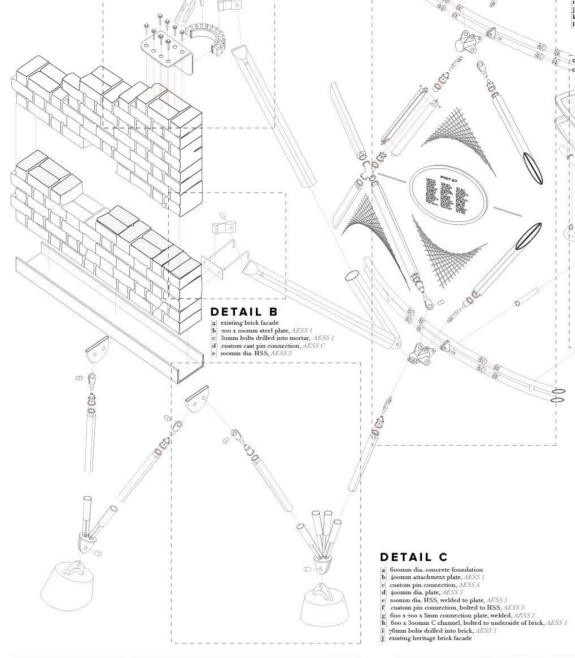
[d] steel grate, AESS 1

exploded axon of the assembly of segment of the tower and how it connects the the ground and the brick wall









DETAIL A





DISCOVERY Originally founded in 1915 when opal was first discovered by 14-year-old Wille

Hutchison, the town's name comes from the indigenous term "kupa piti", meaning "white man in a hole".

Subdivision of space to set program boundaries

aggregaton

HUT

partitioning

Amalgamation of materials to

delineate space

visible segregation

occupant, similar to a mother's womb

Stark contrast of walls to create privacy, with openings for visibility

optical eavesdropping

CAVE

spatial gradient

Continuous space that can be variably occupied

envolopment

Spatial void that embraces the

Ability to see and not be seen, from within and to the exterior



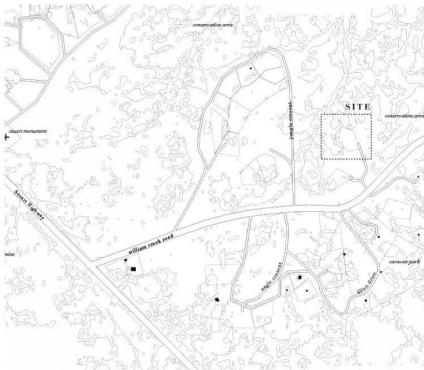
#### HOUSING DEVELOPMENT

As the early inhabitants were miners, they simply slept in the mines. They soon discovered the benefits of subterranean living in the harsh climate, and the construction style persisted.



#### PRESENT DAY

In recent years, Coober Pedy has seen a drop in prospecting activity with less miners on the field. Instead, the town turned to tourism and serves as a major regional center in the Australian outback.

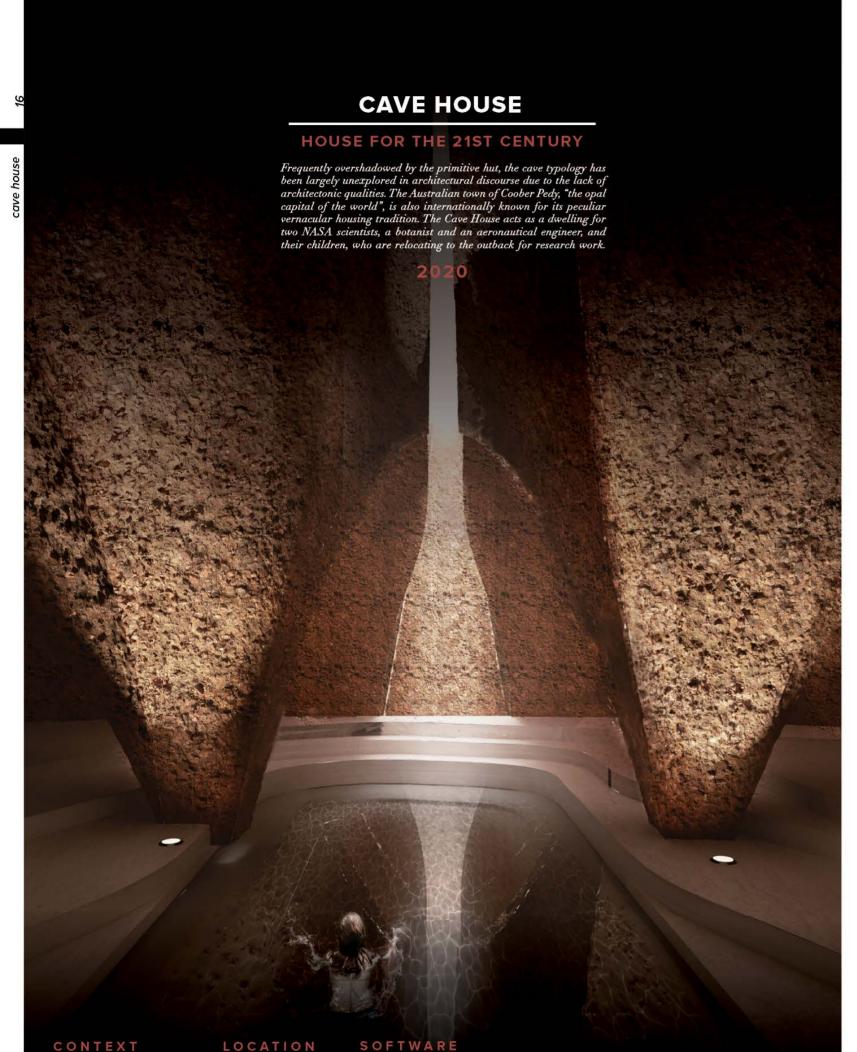




above: site plan

As the majority of buildings are underground

they are shown with dashed lines.

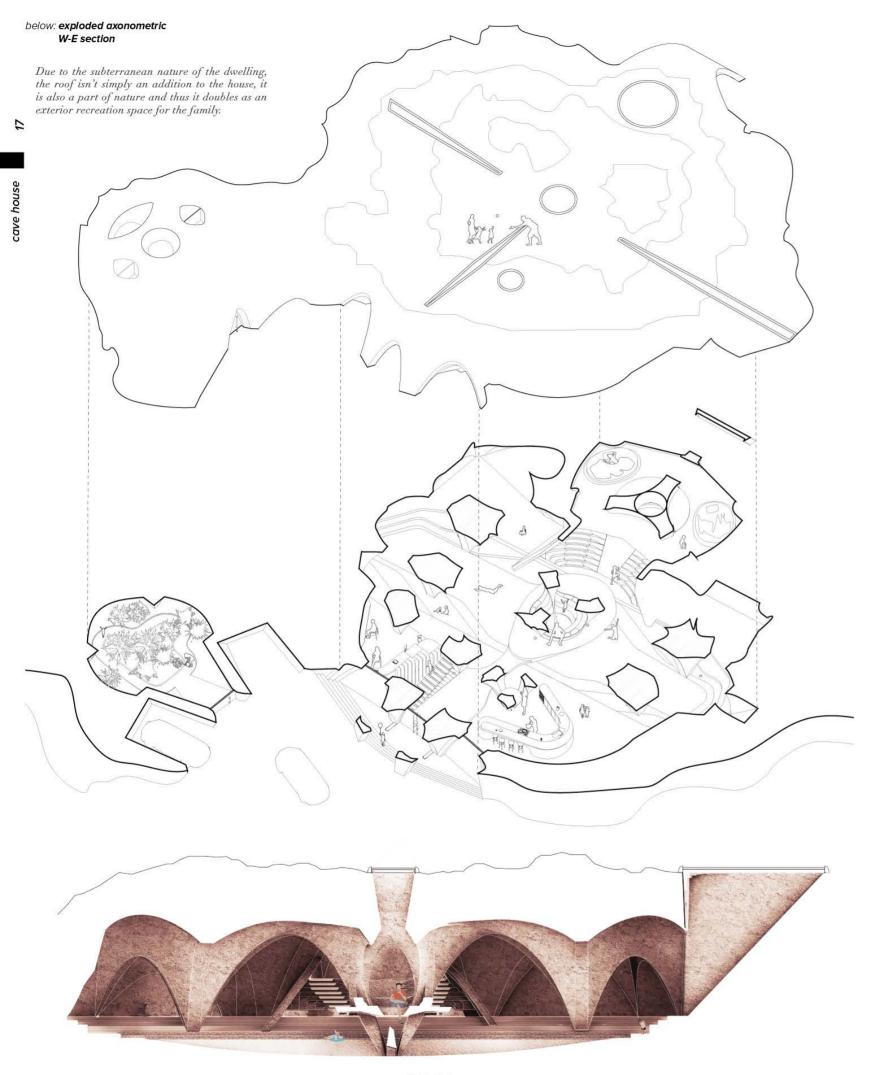


Rhino, Illustrator, Photoshop

Here and Now: House for the

21st Century Competition

Coober Pedy, Australia



POOL

The pool not only provides a reprieve from the desert heat but also serves as a safe playscape. The gradual steps allow for various plateau conditions for play as well as various other family activities.

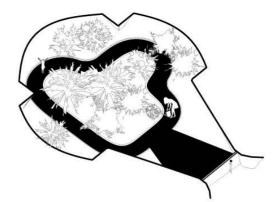




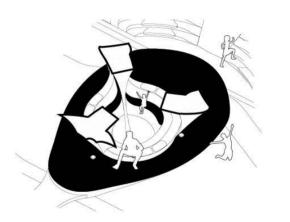


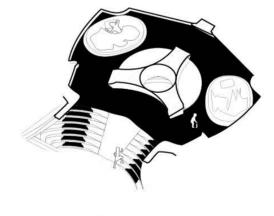




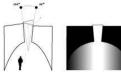








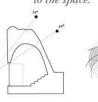




GARDEN

#### KITCHEN

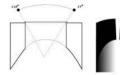
The kitchen is configured as an island in order to entourage gathering around as a social center. The oculus skylight above the island table provides ventilation and daylight to the space.





### LIVING SPACE

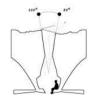
The pool merges with the living space, with the built-in seating featuring out facing padded seats as well as inner facing benches, which allow feet dangling in the water or slipping directly in.





### BEDROOM

The central oculus opening guides light to the lower bedroom while also generating a non-definitive obstruction to create a sense of separation between the upper rooms.



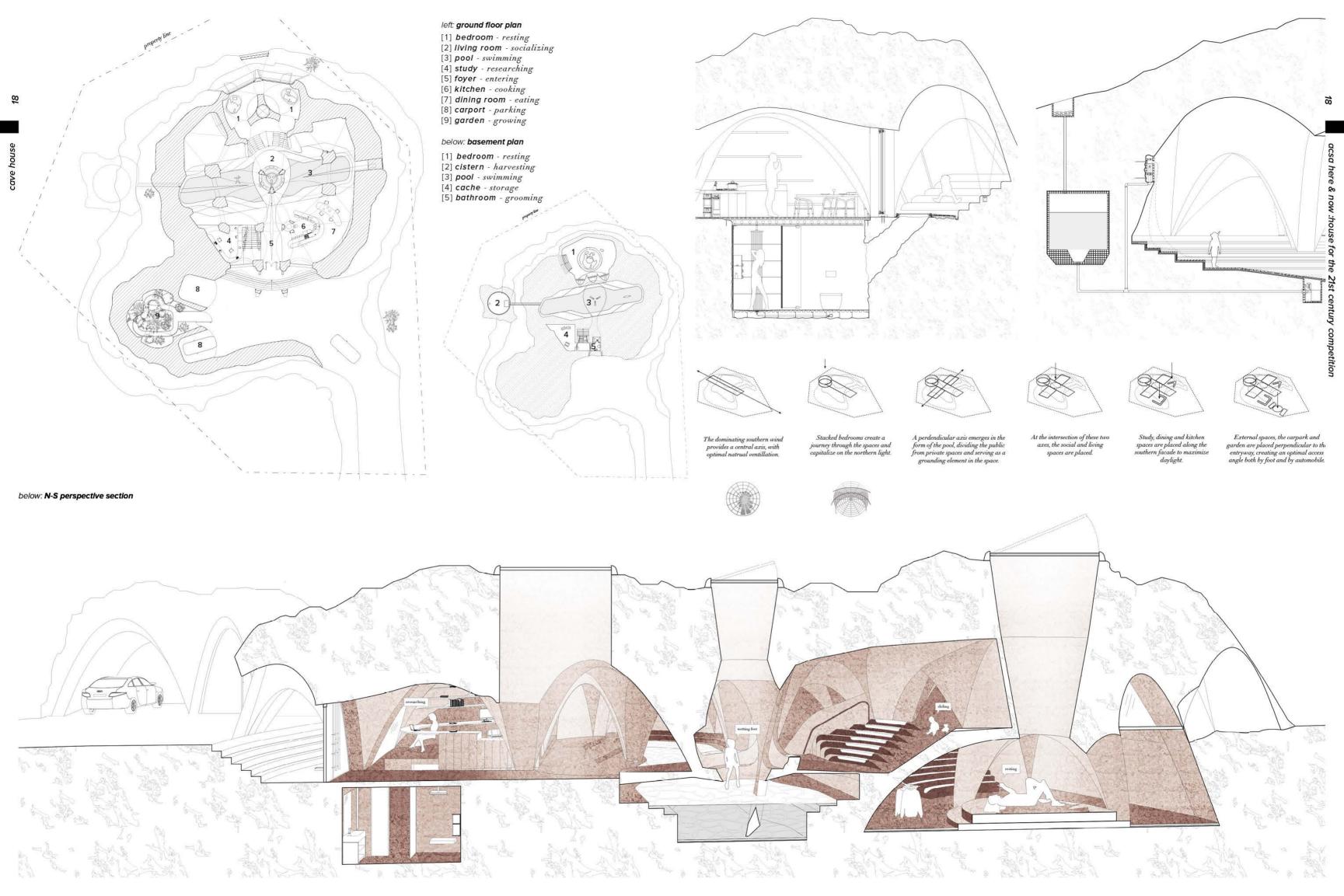


#### STUDY

Working primarily with data and complex technologies, it is crucial for this family to have a large workspace. Incorporated into the adult workspace are stepping desks that allow for the children to participate in academia.





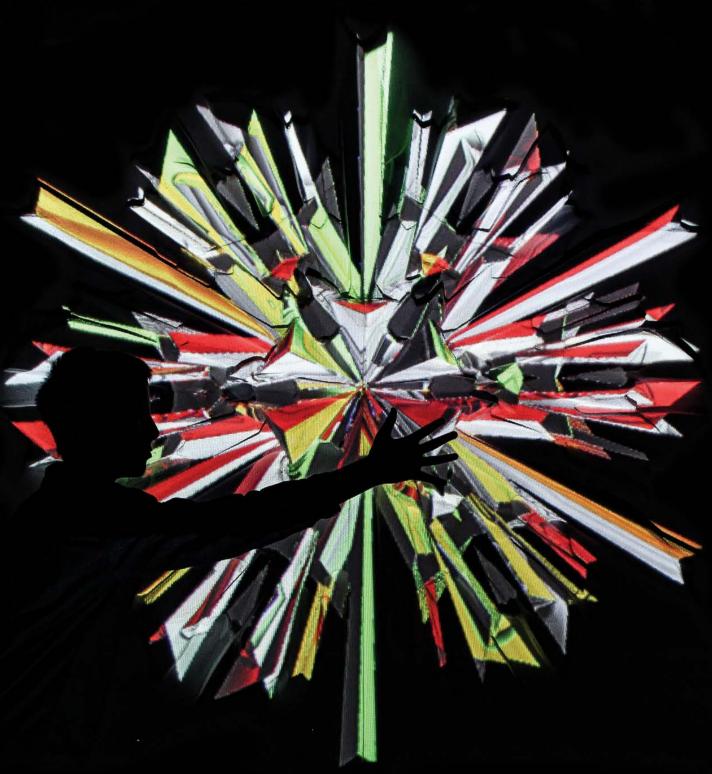


# **DISTORTED PROJECTIONS**

#### **DESIGN TO FESTIVAL**

As physical and social distancing becomes the 'new normal', people are becoming less connected to spaces they previously occupied. This project aims to builds connections between the digital and the physical using projection mapping and the physical using projection mapping and the physical using the projection mapping and the physical using projection mapping and the physical part of the physical using the physical part of the physi morphs based on the movements of passersby.

2020



#### CONTEXT

 $A cademic\ Project +$ 325 Church Street, Design TO Festival Toronto

#### LOCATION

#### SOFTWARE

TouchDesginer, GLSL, Rhino 6, Gasshopper, CNC milling, Photoshop, Illustrator

## SUPERVISOR

Prof. Vincent Hui



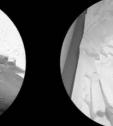
## CNC MILLING

The CNC machine carved the geometry from rigid insulation block of material.



#### SANDING

In order to remove any inconsistency, the geometries were sanded.



#### PAINTING

For optimal reflectivity, the geometries were coated in a layer of primer paint.

sphere

sphere =

length(point)
-radius;



## DIGITAL OUTLINE

Within TouchDesigner, key points are identified on the virtual geometry.

rectangular prism



#### ALIGNMENT

torus

The projected points are then aligned to the actual coordinates in real life.



point2;

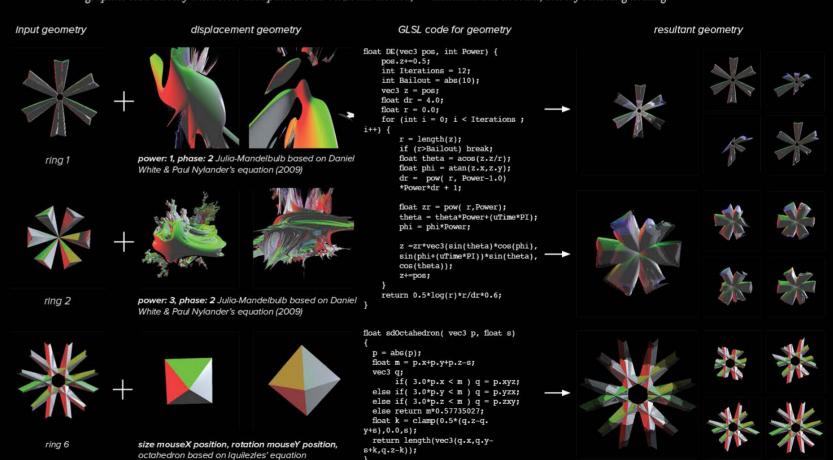
box = length(max(q,0.0)) + min(max(q.x, max(q.y,q.z)),0.0)

-t.x,p.y); torus = length(q)-t.y;

developed by Inigo Quilez

#### RAYMARCHING

It is extremely difficult to modify complex geometry in real-time due to the memory and GPU power required. Raymarching, a novel technique used primarily in interactive media design and animation in order to alleviate these issues. It is written in code (GLSL) to dictate to the graphics card directly what color each pixel should be. In this method,



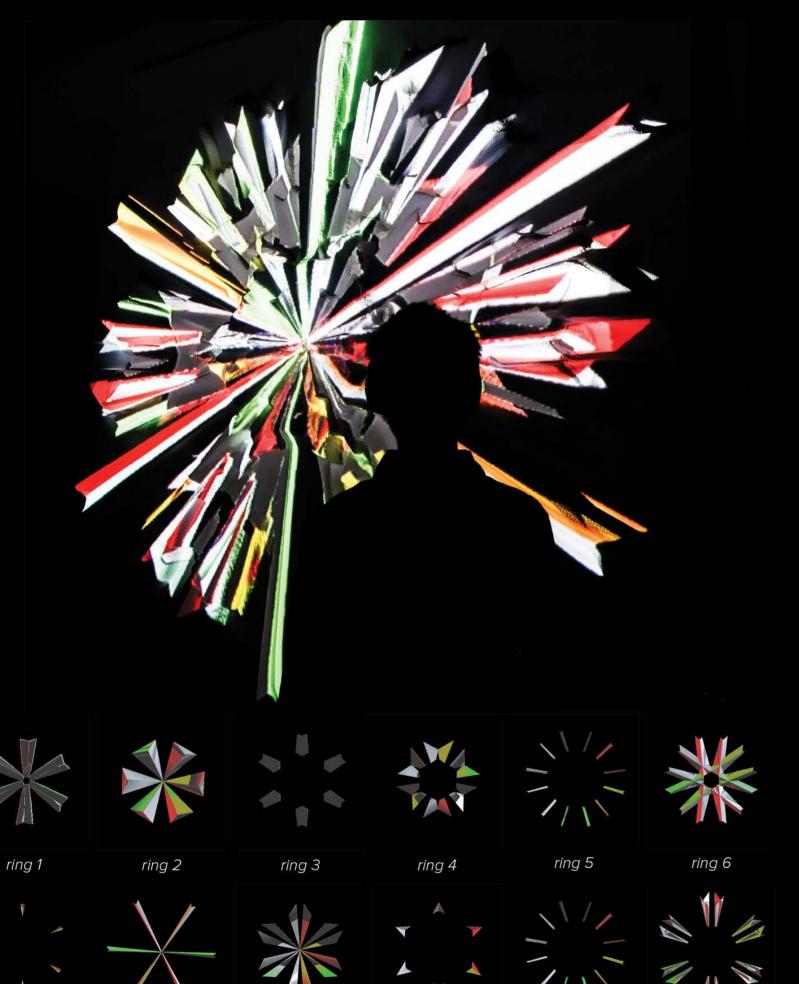
#### GEOMETRICAL DERIVATION MATRIX

The projected geometries are animated through the displacement by time or input-animated geometries or using self-dilation based on a user's hand placement in front of the panel. The displacement geometries are plays on more classic forms, such as the fractal Julia-Mandelbub or various pure geometries including the sphere, octahedron and more. By combining the static and kinetic equations, the projected geometries are able to come alive and morph.

ring 7







## FORMAL DEVELOPMENT

ring 10

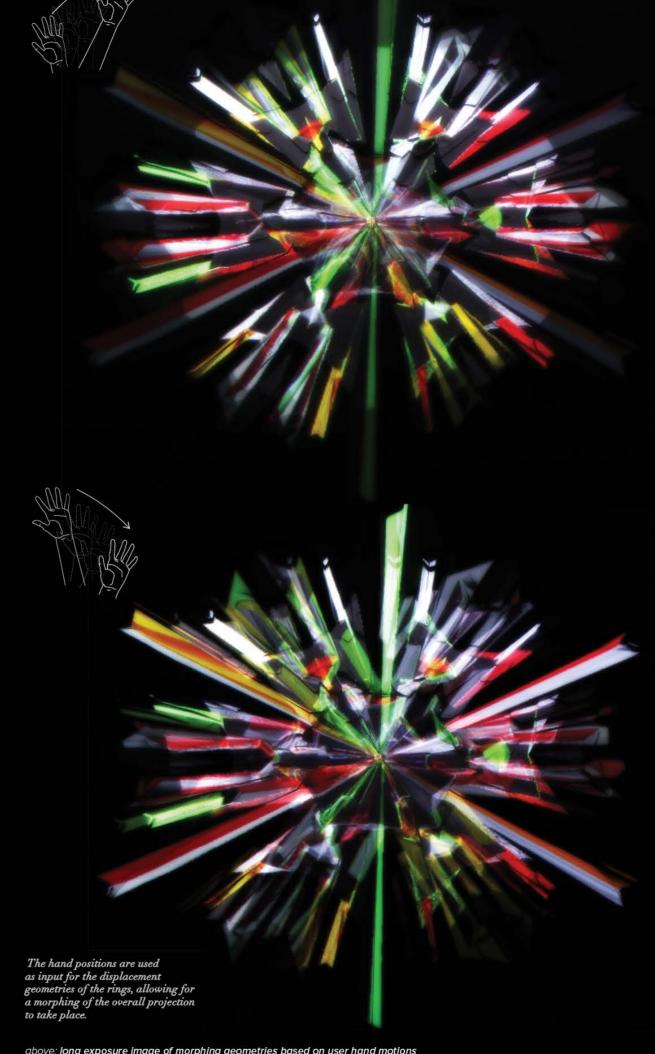
ring 11

ring 12

The base geometry is composed of 13 arrayed 'ring' geometries, each made up of a plethora of 3D quadrilateral and triangular planes. Each ring aligns with a portion of the CNC'd geometry once superimposed.

ring 9

ring 8



# **PHENOMENEUROLOGY**

## AN OFFICE WITHIN THE BRAIN

Introducing the revolutionary piece of synthetic neurology. This all-new product allows for 100% productivity, providing you with time to do whatever you wish.



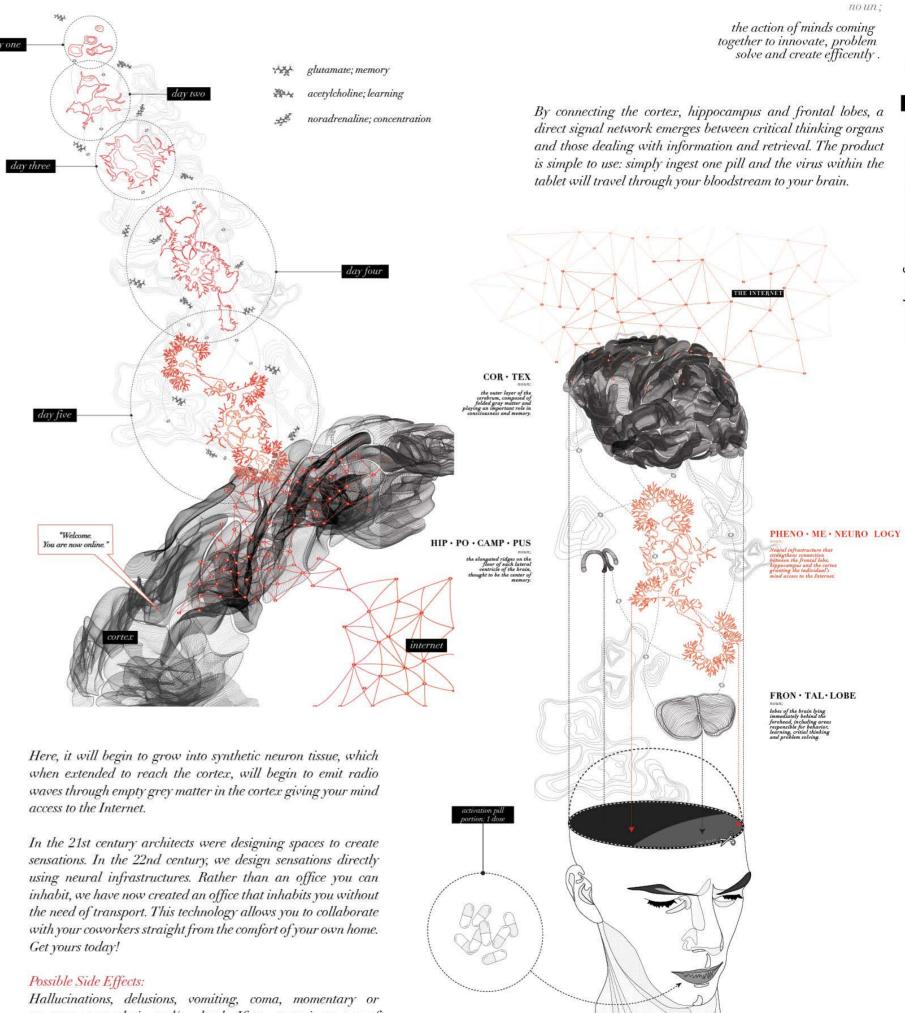
LOCATION

Human Brain

SOFTWARE

COLLABORATORS

Routao Wang



CONTEXT

Thinking Non-

Architecture Competition

Illustrator

permanent paralysis, and/or death. If you experience any of these effects, please stay calm and have faith in technology.



#### SUNKEN CAFE

The sunken cafe creates a threshold between the studios and the park.



#### STUDIOS

The industrial nature of the building is displayed in the studios by inverting the guts of systems and emphasizing them.

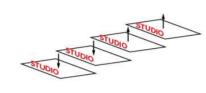


FACADE

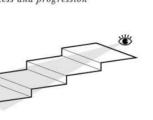
The louvered facade on the south elevation allows for some shading while preserving the views into the park.



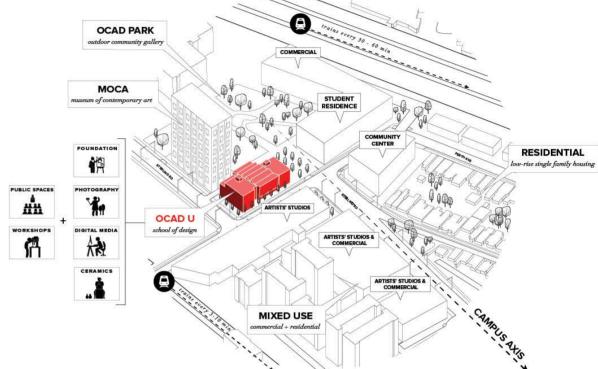
Typical studio configuration

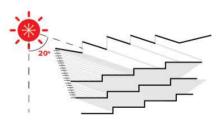


The staggering of studios to allow for the expression of process and progression



The views from the levels expose the park beyond as well as the activities within the studios



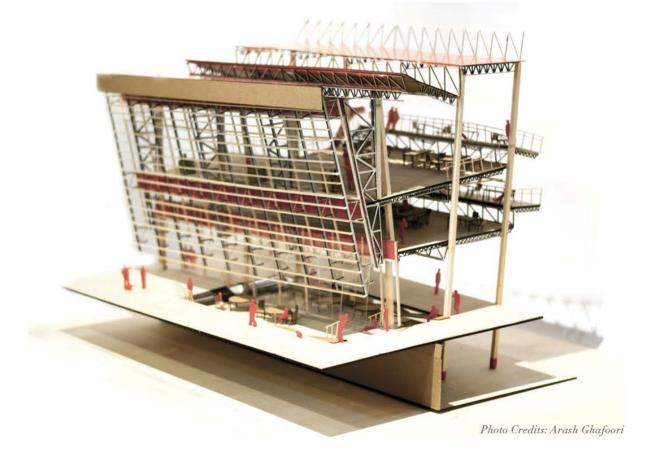


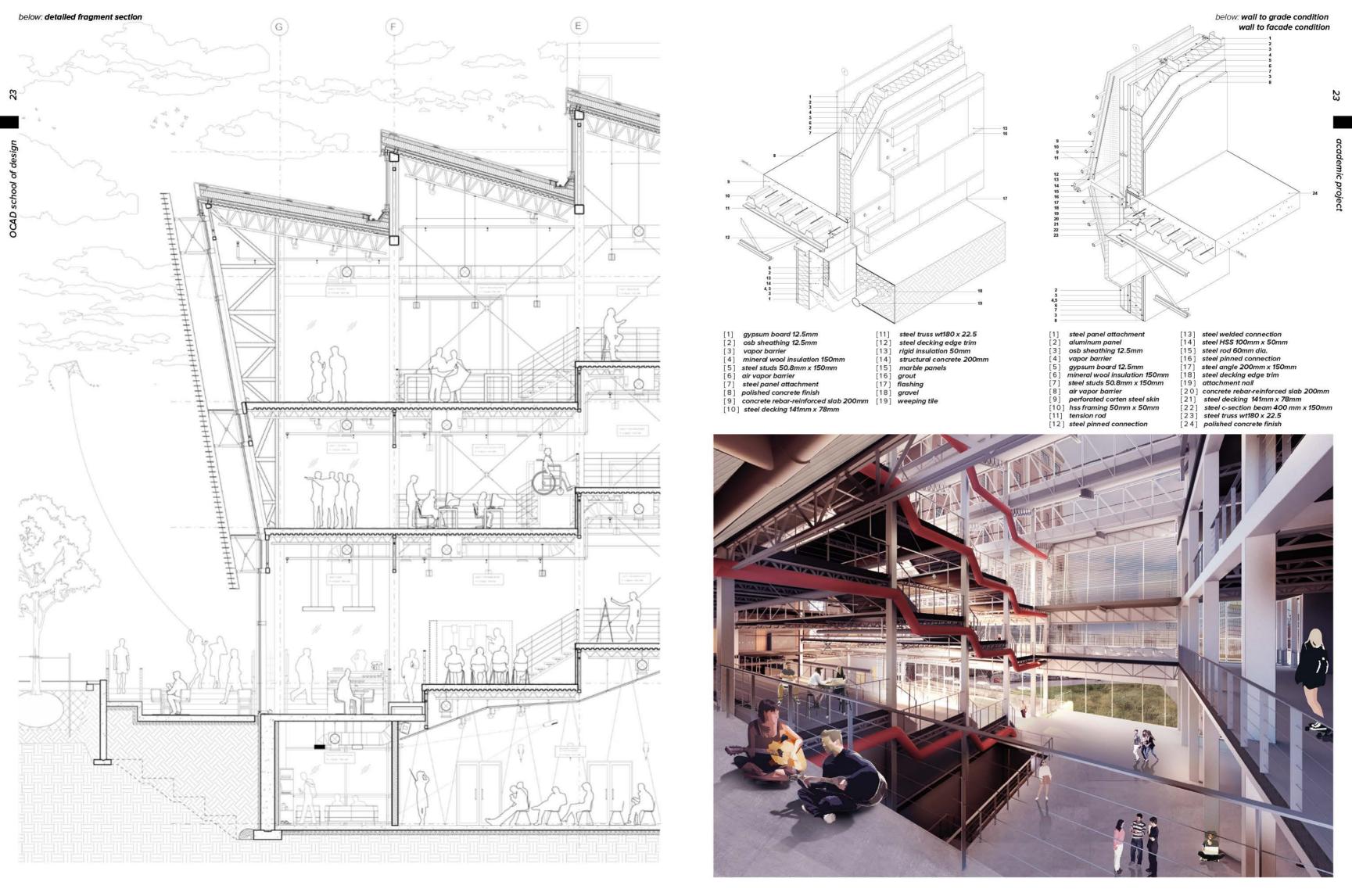
The winter sun is able to illuminate the interior spaces



The shading elements are able to protect the interior from summer sun

Diagrams by Lena Ma, edited by applicant

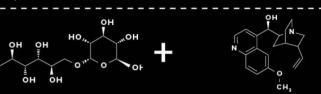




#### ISOMALT

object when boiled in water. It cooled to be a clear, viscous and solid mixture.

A sugar replacement for people with A naturally occurring element found in diabetes, isomalt creates a candy-like tonic water, which gives it the ability to glow under black light.



Following several rounds of material testing, the combination of isomalt and quinine was selected for the clarity and transparency of the substance in daylit conditions, and the steady glow under black light.



**PHOSPHORESCENCE** 

and wasn't a smooth application.

Phosphorescent paint, which glows in the dark after being exposed to light, was tested first. It proved to be dim, unreliable bright, it was not viscous and had a very

CNC MILLING

Following the 3D models, plywood was CNC'd to mimic the contour lines of the bluffs based on the heighfield maps.



FLUORESCENCE

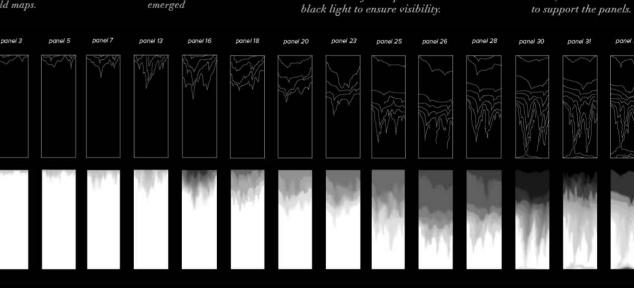
2D appearance.

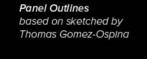
A heated mixture of tonic water and isomalt was boiled until a clear substance emerged



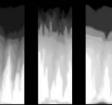
The substance was applied onto 'eroded' area of the panels under black light to ensure visibility:







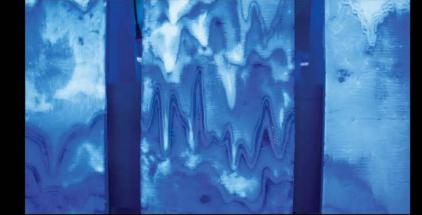






Heightfield Maps base imagery for CNC models of the panels







# CONTEXT LOCATION

Gladstone's Annual Gladestone Hotel, Grow Op Exhibition Toronto

## SOFTWARE

Rhino, Illustrator, Jiaqi Liu, Thomas Gomez-Photoshop, CNC Router, Ospina, Shengyu Cai

# COLLABORATORS ROLES

Design, 3D Modeling, Budgeting, Fabrication, Material Experimentation, Logistics, Detailing

Grow Op Seed Award

# TRANS-PIER\*\*

#### WHERE TRAVEL MEETS ENTERTAINMENT

The Trans - Pier™ turns the cause of Atlantic City's downfall into its greatest asset by creating a transportation hub that becomes a destination in itself. The facility emphasizes the experience of those who transition through the spaces within the transportation hub and allows them to become participants in other traveler's journeys. By combining port transport such as cruises, ferries, and cargo ships with air travel, the hub caters towards a variety of visitors traveling to and from nearby cities.





#### PLEASURE PIER

Galveston Island, Texas Founded in 1943



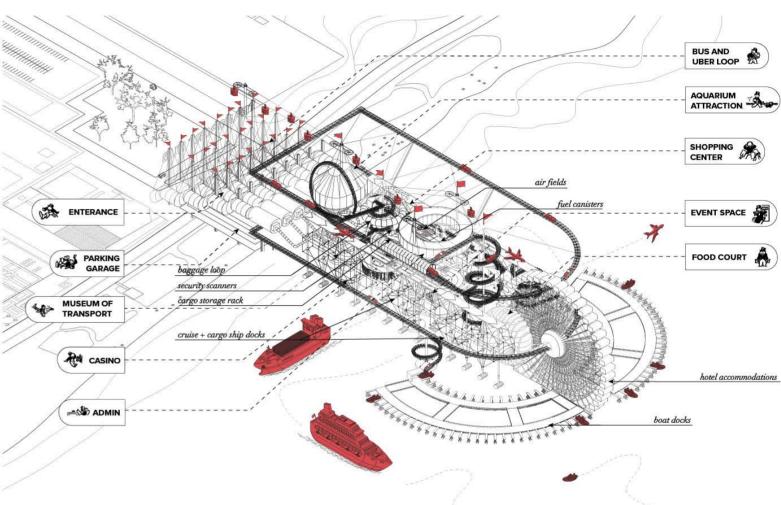
#### SANTA MONICA PIER

Santa Monica, California Founded in 1909



STEEL PIER

Atlantic City, New Jersey

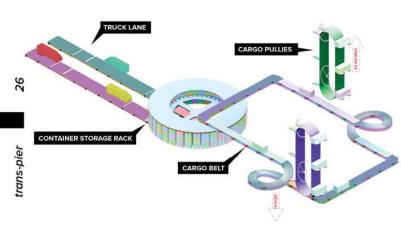


Throughout the United States, the 'pleasure pier' concept has been a popular icon of summer retreats and entertainment since the early 1900s. Built over a body of water near popular summer vacation spots, such piers contain a multitude of rides and games for the tourists enjoying the beach. Such a model serves as a perfect precedent for the Trans-Pier, catering towards the tourists enjoying the boardwalk as well as those in transit, while also giving a nod to the historical entertainment structures in the area.

## above: exploded isometric

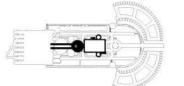


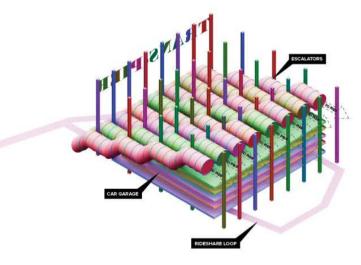




#### CARGO

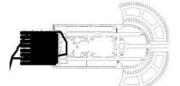
Connecting the boat and the airplane unloading areas, the continuous cargo system allows for goods to be easily delivered by air and sea and placed on trucks, and vice-versa.

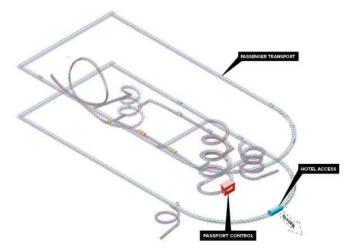




#### LAND TRAVEL

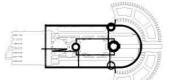
The car garage features continuous and exposed floor levels for passengers to leave their vehicles and ascend to the building. As ride sharing transport becomes more prominent, the ride share and bus loop allows for easy entry and exit for vehicles.

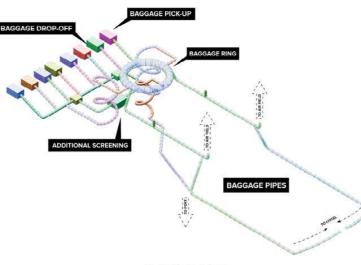




#### PASSENGER TRANSPORT

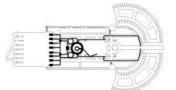
By using continuous looping systems of transportation, the baggage and cargo is able to be transported throughout the facility seamlessly.

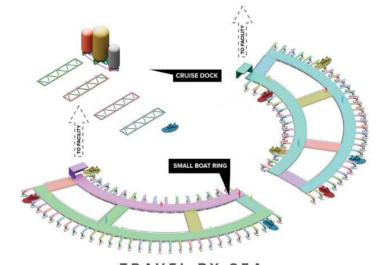




## BAGGAGE

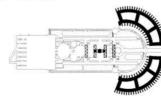
By using continuous looping systems of transportation, the baggage is able to be transported throughout the facility, to the various entry, exit points as well as the hotel, seamlessly.

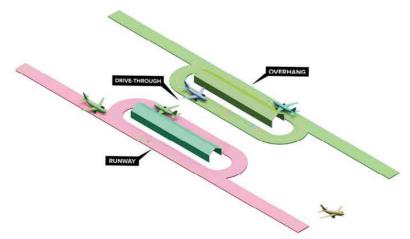




#### TRAVEL BY SEA

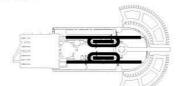
Boating is a very popular activity and method of transportation among the tourists in the city and this facility provides sufficient docking space for those visitors. In addition, the cruise port serves as a destination for incoming ships to dock.

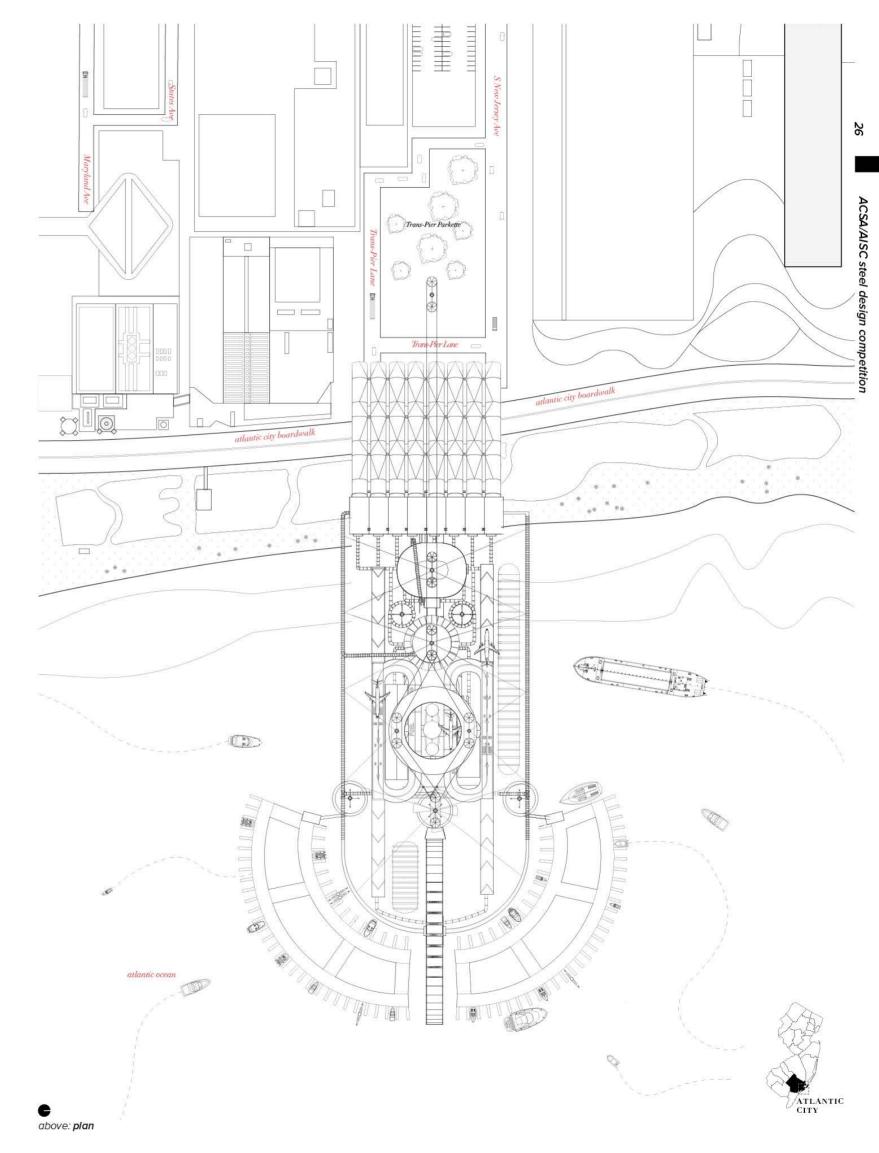


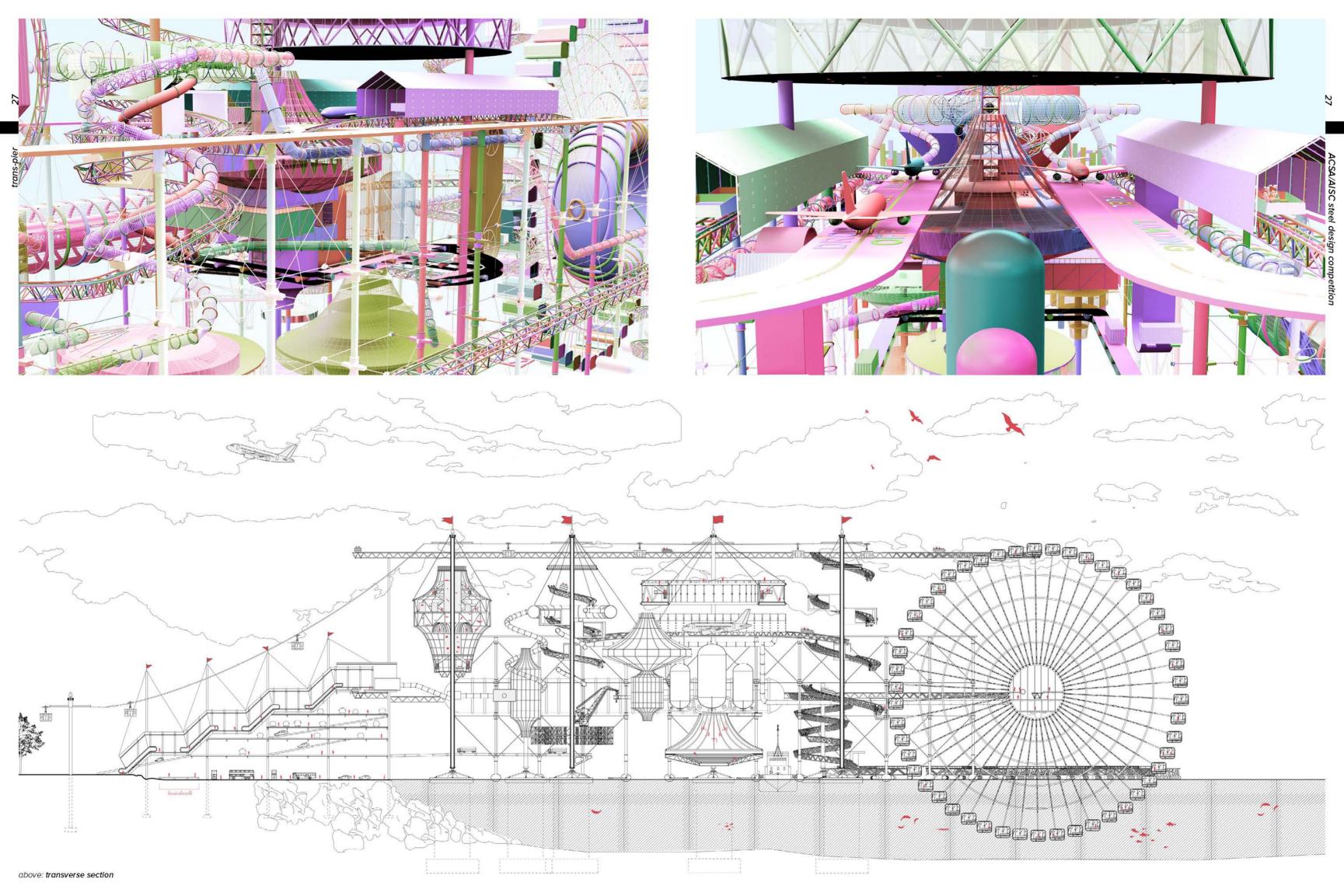


#### AIR TRAVEL

By making the runway a continuous loop, the air field is able to use a drive-through system which minimizes the time that the plane spends on the ground.

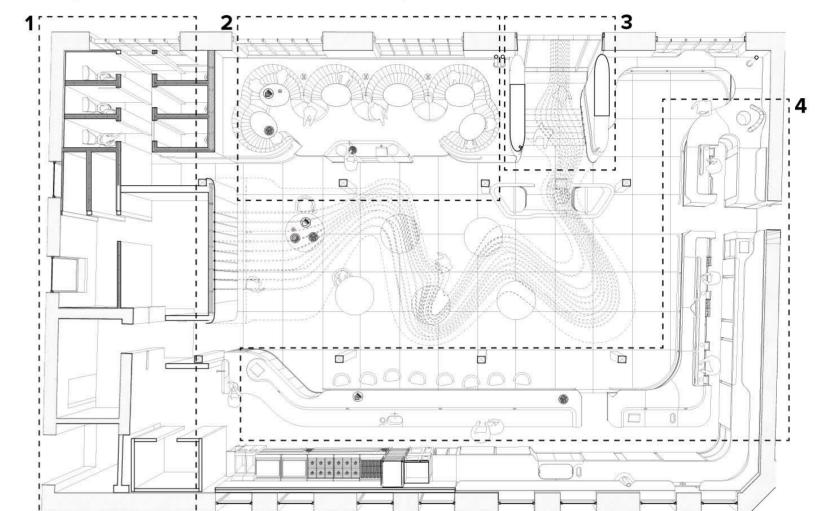












BACK OF HOUSE AREAS

Contributions: plan framing layouts, modeling, detailing

DINING AREAS Contributions: plan layouts, iterative design + models, detailing

2

ENTRY AREAS

Contributions: iterative models of bars, drip tray design, detailing

Contributions: iterative design + models, mock-ups, detailing

#### all images courtesy of PARTISANS photography and renderings by PARTISANS, all others created by the applicant

STUD FRAMING

Complex 3D stud framing was required on the ground wall and ceiling planes.

DRYWALL

element in the bulkheads as well as entry walls.

Drywall is a primary

The GFRG sculptural ceiling extends throughout the space, acting as the sky.

CEILING

The concrete and leather counters act as the erosion elements.

Millwork elements serve to produced clients through the



above: perspective floor plan

BAR AREAS



LOCATION

PARTISANS 601 King Street East, Internship (12 months) Unit 6, Toronto

SOFTWARE Rhino, Grasshopper, Revit, Illustrator, 3D printing, Python

SD, DD, CD,

PHASES

CORE TEAM

Jonathan Friedman (partner), Ivan Vasilyv (senior designer)

Design iterations, construction documentation (IFC, Revisions, Patio approvals), fabrication rationalization

ROLES

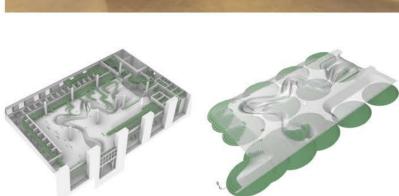


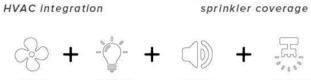


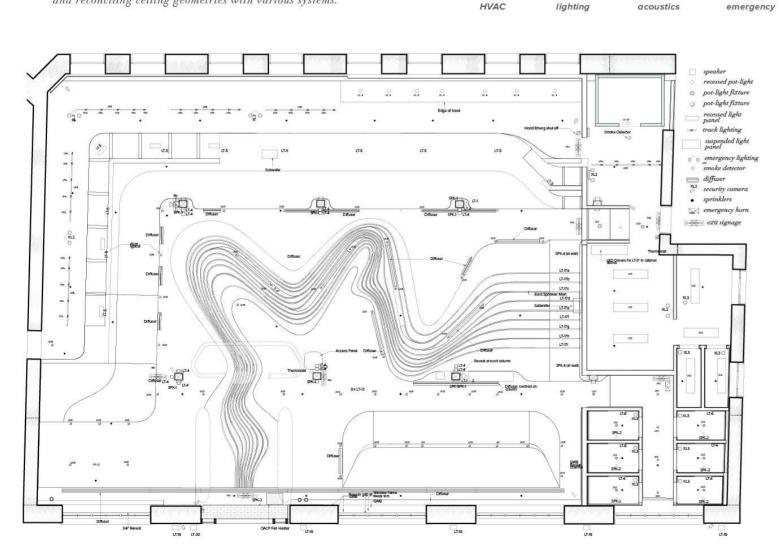


SYSTEMS INTEGRATION

The sculptural ceiling serves as not only the centerpeice of the project but also a keeper of all the functional ceiling elements, such as the lighting, sprinklers speakers, emergency signage, and HVAC. I was tasked with developing RCP and reconciling ceiling geometries with various systems.













HARD MOLD

Mold is CNC'd from wood with silicon strips for the lighting grooves.



PUTTY APPLICATION HOOK INSERTION

Gypsum putty and fiberglass meshes are applied within the mold.



Before the putty fully dries, hanging hooks are inserted into key structural areas.



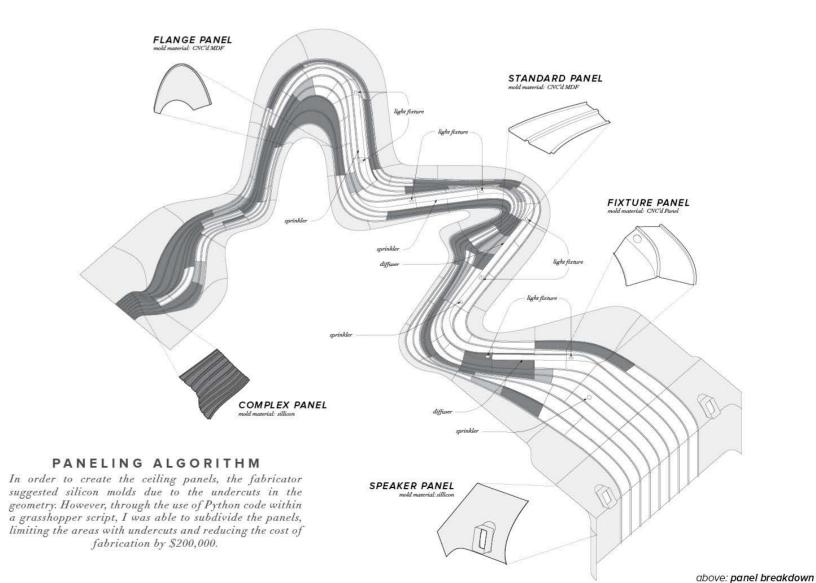
SITE INSTALL

Lights are placed within the grooves and connected via drilled holes.



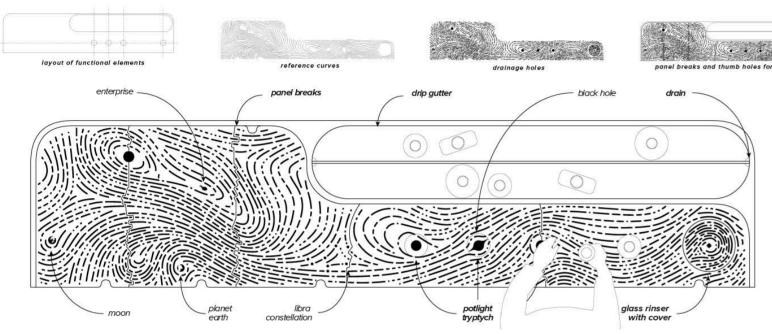
MUDDING

Finally, panels are hung onto stud substructure and mudded to drywall.



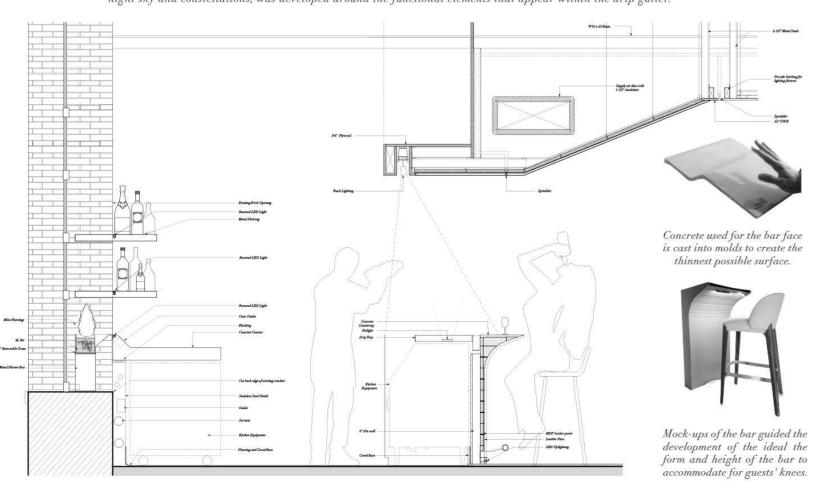






#### DRIP TRAY PATTERNING

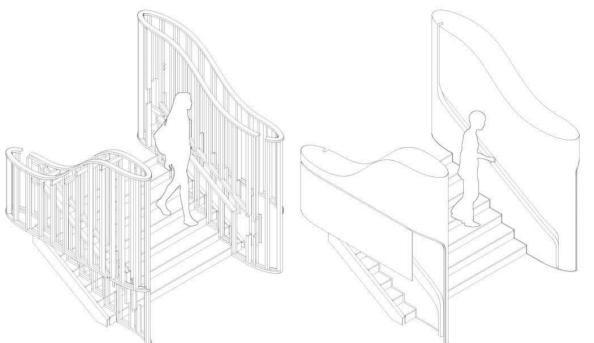
I was tasked with the design for the water jet perforation patterns for bar drip trays for drink mixing. The design, inspired by the night sky and constellations, was developed around the functional elements that appear within the drip gutter.





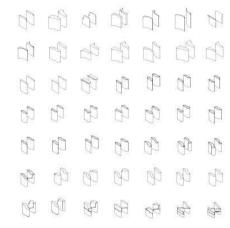


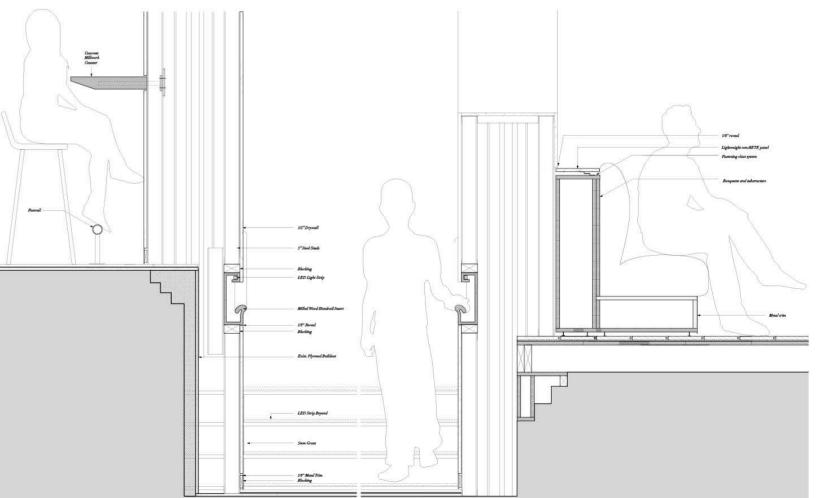




ENTRY DESIGN

I was tasked with designing and detailing the entryway to the restaurant. Inspired by the forms of erosion, the walls are carved out to direct the entering visitors. I iterated through several forms for both the walls and the inset handrail as well as the detailing, handrail form testing and stud placement.





 $all\ images\ courtesy\ of\ PARTISANS$ 

photographs by PARTISANS, all others created by the applicant

Research to be published in a conference paper and a journal article

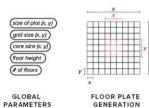
Vincent Hui

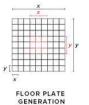


Expanding on previous research conducted by Prof. Terri Peters, I was offered the challenge of re-examining the previously designed workflow to generate residential building geometries based on daylight optimization. Where the previous iteration of the script used Galapagos, the results were variable and many contained disconnected floor plates. I substituted the approach in favor for multi-object optimization, in order to account for various factors, such as daylight, area, energy efficiency and most importantly a boolean value for validity, which eliminated invalid floor plate configurations. The script also featured python nodes, which helped with the iterative decision making within the script itself.

This workflow was tested on Hariri Pontarini Architects' Bloor One Towers in Toronto, yielding an improvement in DLA of up to 30% on the building floor plates.

#### INITIAL SETUP



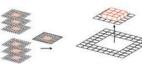








TILE GENERATION









VALIDITY ANALYSIS

PYTHON NODE DETERMINES IF THE ITERATION WILL BE SKIPPED OR WILL BE ANALYZED FURTHUR

# DAYLIGHTING ANALYSIS



GEOMETRIC INPUTS





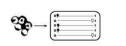




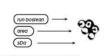


ANALYSIS INPUTS VALUE OUTPUTS

OPTIMIZATION

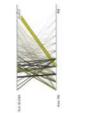


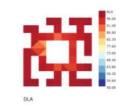
POOL WITH VARYING VALUES



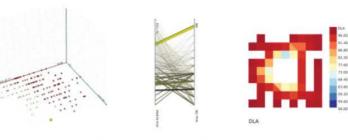
BASED ON HIGHEST VALUE AND LOWEST SLOPE OF LINE



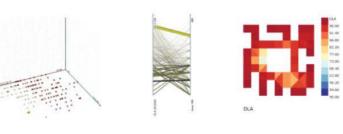




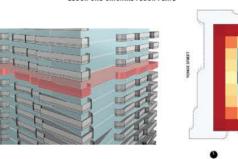
#### Solution with Highest DLA Performance

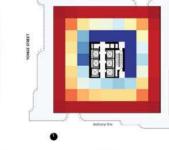


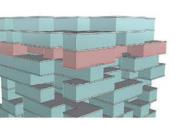
Solution with Greatest Floor Area

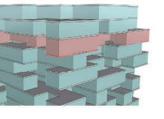


Most Optimized Solution

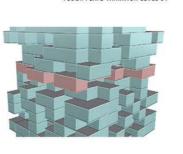


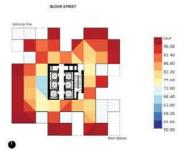












# THE ARCHITECTURE PORTFOLIO GUIDEBOOK

By Vincent Hui, Published by Routledge Taylor Francis Group in 2019

As a research assistant, I had the opportunity to aid professor Vincent Hui with his first book. I was tasked with collecting imagery from students and alumni within and outside of Ryerson University, generating the diagrams and tables, discussing contents with the professor, cover jacket design, and typesetting layouts. As the book contained several interviews from architects and academics, I worked on the transcription and editing of the interview text

In addition, I provided the imagery and text for the appendix, which provided examples of various drawing representation types with suggestions for











#### ARCHEOLOGY ALIVE EXHIBIT AT THE WHITCHURCH-STOUFFVILLE MUSEUM

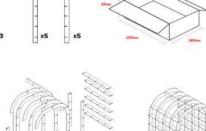
Awarded the Ontario Museum Association Award of Excellence in Exhibitions

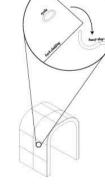
Led by professor William Michael Carter as a inter-disciplinary, inter-institutional endeavor to create a multi-sensory virtual experience for the Whitchurch-Stouffville museum as a part of their "Archeology Alive" Exhibit. The collaboration, involving professors, researchers, and students from Architecture, Archeology, Animation, and Sound Design, aimed to reconstruct a digital model of a traditional Huron-Wendat longhouse, alongside an enclosure that would enhance the virtual experience to a multi-sensory one.

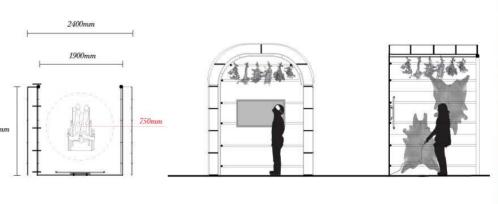
I was charged with the design of the physical enclosure, so I was able to take part in site visits, examine indigenous architecture, research traditional materials, and develop fabrication techniques for the enclosure.













#### CONTEXT

Research Assistantship

SOFTWARE

## Dr. Terri Peters

SUPERVISOR

#### CONTEXT

LOCATION

#### SOFTWARE

#### InDesign, Illustrator, Photoshop, Rhinoceros Enscape, Twinmotion, Oculus, Unity, Unreal

Prof. Vincent Hui

# thank you!

**Tatiana Estrina** LEED Green Associate

testrina@ryerson.ca

416-473-7001

24 Rosetree St, Richmond Hill ON, Canada, L4S 1J7