Architectural Design Portfolio
Bill Yau

Bill, Kwok Piu Yau

ARCHITECTURE PART II GRADUATE

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Seeking Architectural Assistant/Internship placement. Graduating from Master Architecture in Oxford Brookes University with animator, multi-media and architectural designer background.Skilled in 2D&3D design tools, Modeling, Video & Motion Graphic Design.
From Ancient Greek arkhitéktōn, "architect" meaning chief builder (principal craftsman). It's not just for design building, Architecture as a memory device of human civilization, I believe architecture is the ultimate form of design, the training of architect make them be able to response to various problem with different design solutions, which can help to create a better memory for community.

Education

MArchD Applied Design in Architecture,
Oxford Brookes University , Oxford UK
2017-2019

Bachelor of Science in Architectural Studies,
City University of Hong Kong , Hong Kong
2014-2016

Bachelor of Science in Creative Media,
City University of Hong Kong , Hong Kong
2010-2013

Associate of Science in Architectural Studies,
City University of Hong Kong , Hong Kong
2008-2010

Work Experience

Graphic Designer, University of Oxford | Sep 2018 - Oct 2018
Presentation graphic design & consultancy for department of social policy & intervention

Architectural Internship, HPA, HK | Jun 2018 - Aug 2018
Preparing tender documentation & construction drawings, assist & design with AutoCAD & Rhino. Involve in Interior Designing & material selection for projects, regular design consultant meeting and presentation with client.

Architectural Assistant, HPA, HK | July 2016 - Aug 2017
Preparing tender documentation & construction drawings, assist & design with Auto-CAD & Rhino. Facade design, Master planning option & material selection for projects. regular design consultant meeting and presentation with client and Architectural Services Department(HK) .

Assistant Motion Graphic Designer, New Page Communication Ltd, HK | Sep 2013 - Aug 2014
Story board for video filming, post production & VFX, Crew member, animation & motion graphic design

3D Animatior Internship, Animakit Studios | Jun 2012 - Aug 2012
3D Character Modeling & Rigging, Motion Tracking & exhibition technician

Language

Cantonese (native)
Mandarin (fluent)
English (fluent)
Hakka (fluent)

Scholarships & Awards

Integrated Building Project Development Competition - Merit | 2016

HKSAR Government Scholarship Fund | 2015
- Talent Development Scholarship

Interest

Graphic design | Modelling | Cinematography | Animation | Amateur photography | Travelling | Reading | Hiking | Rugby | Taekwondo

References upon request

Skills

Extra - Curricular

Oxford Architecture Society (OxArch)
Graphic Design | 2018-2019

Producer & Chairman of Annual Graduation showcase
City University of Hong Kong | 2016

CLOUD Pavilion(Installation)
School of Creative Media, City University of HK
University of Saint Joseph, Macau | 2016

Artist of SIG show case(Installation)
City University of Hong Kong |2013

Artist of SIG show case(Animation)
City University of Hong Kong |2013

Poster Design, 40+4 exhibition
City University of Hong Kong | 2013

Artist of SIG show case(Animation)
City University of Hong Kong | 2012

Art Director of SIG show case
City University of Hong Kong | 2012

Opening Animator of SIG show case
City University of Hong Kong | 2011, 2012

Artist of SIG show case(Game)
City University of Hong Kong | 2011

Senior School Team Councilor(RUGBY)
City University of Hong Kong |2009-2013

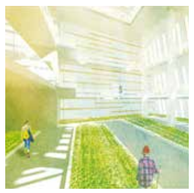
Rugby Men School Team
City University of Hong Kong | 2008-2013, 2014-2016

| *Logistic of Death & Memory* |

| *Research Study - San Cataldo Cemetery* |

| *Alboraya Bathhouse & Brewery* |

| *The Cave Studio* |



| *VegeTower* |

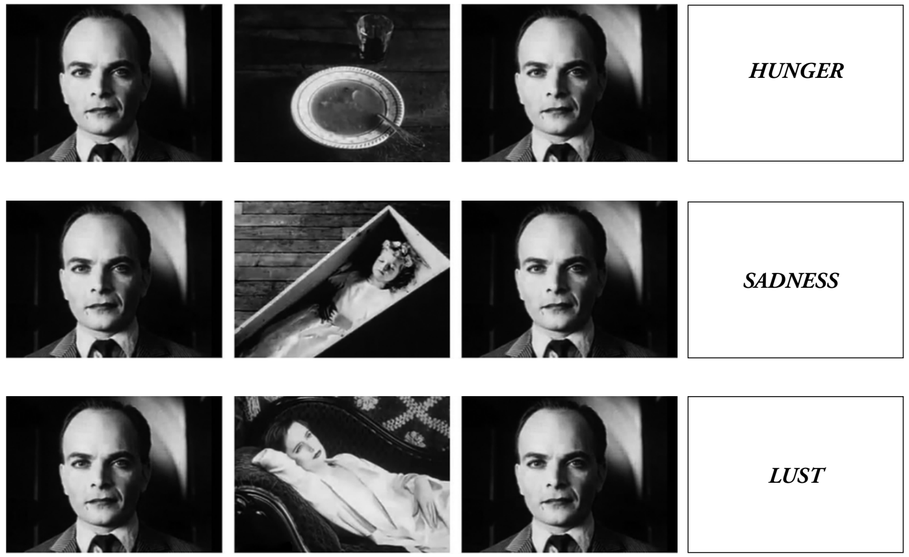
| *Professional & Others* |

Logistic of Death & Memory

2019 | MArchD Year2

| Supervisor: Ms Charlotte Grace, Ms Maria Alexandrescu |
| Site Location: Anaklia, Georgia |
| Project Nature: Cemetery & Crematorium for Georgian |

Soviet Montage Theory
Collision of shots to evoke emotions



Kuleshov effect: mental phenomenon by which viewers derive more meaning from the interaction of two sequential shots than from a single shot in isolation.

Battleship Potemkin, Sergei M. Eisenstein, 1925

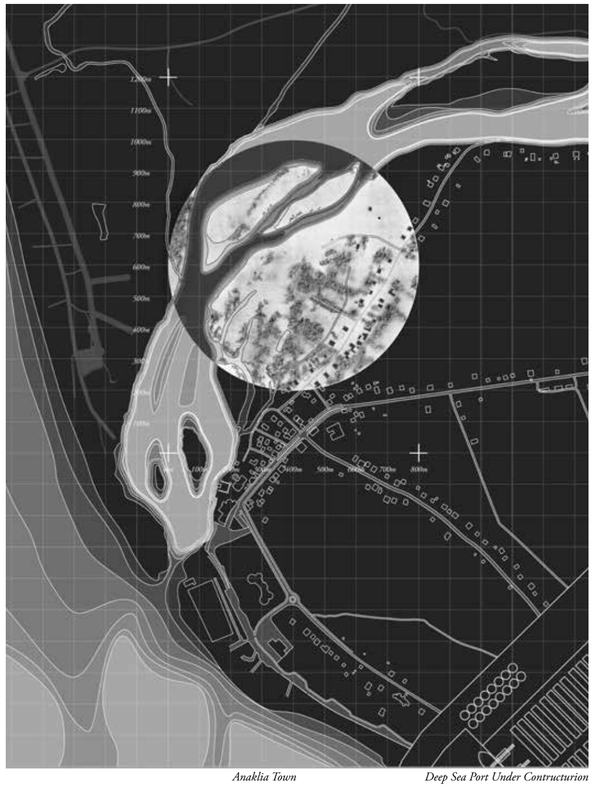
These are simply two separate images, juxtaposed: there is a narrative link (the mother is pointing out the flag to the child), but the meaning of these two shots —the emotion their juxtapositioning evokes—is something larger and more abstract than either shot can contain by itself.

Deep Sea Port Development
Georgia

Planned City Lazika

Lazika, 2018

Anaklia Town, 2018



Anaklia Town

Deep Sea Port Under Contructurion

The derelict Site, 2018

View of Anaklia Promenade, 2018

Anaklia Deep Sea Port Under Contructurion

"We want to be cremated in Georgia"

Mukhatgverdi Cemetery for Heroes, Tbilisi, Parliament of Georgia, 2014

Anniversary on Russia-Georgia War in 2008, commemorated the heroes deceased in this war in the Mukhatgverdi Cemetery.
The Eastern Orthodox Church, officially the Orthodox Catholic Church, is the second-largest Christian church, with approximately 200–260 million baptised members. It operates as a communion of autocephalous churches, each governed by its bishops in local synods, although roughly half of Eastern Orthodox Christians live in Russia.
As one of the oldest religious institutions in the world, the Eastern Orthodox Church has played a prominent role in the history and culture of Eastern and Southeastern Europe, the Caucasus, and the Near East.

Orthodox is the main religion of Georgia, Orthodox Church, the stated faith of most Georgians, plays a key role in Georgia furial tradition.

Abandoned Crematorium Mukhatgverdi Cemetery, Tbilisi, The Calvert Journal, 2008

There are no existing crematorium in the country right now. But in Mukhatgverdi Cemetery, there is an abandoned crematorium constructed in 1970 on the order of the Tbilisi city government in the Mukhatgverdi Cemetery. But later was againsted by the Orthodox Church. Although the Bible does not specifically forbid cremation, Orthodox Christians believe that burning a body contradicts Christianity's message of resurrection after death. The Church only has rituals for burials, it leads to the abandoned of the crematorium.

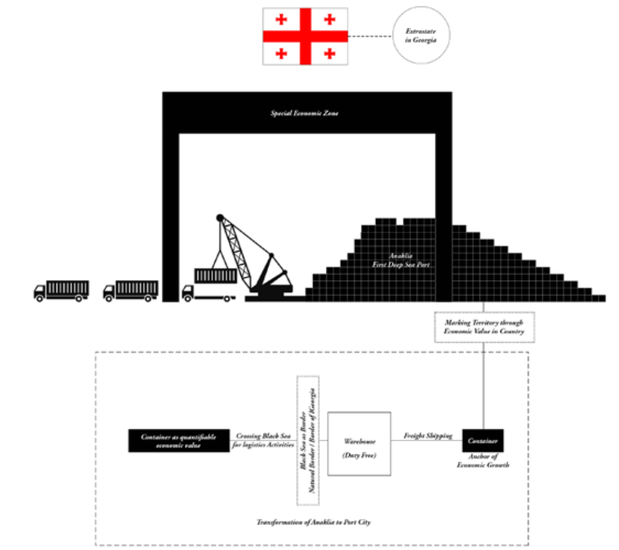
Georgia to Odessa, across the Black Sea

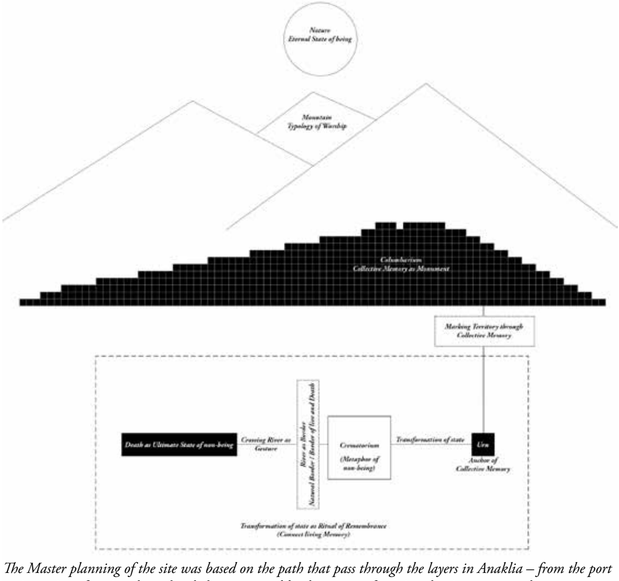
In other counrty with Orthodox Church as their main religion such as Russia and Greece, cremation services is very common as a choice in burial services as it's cheap in price.

Those Georgians who do opt for cremation reportedly tend to send family members' bodies to Ukraine, where a crematorium exists in the Black Sea port city of Odessa. The cost for such a procedure motivates many. A few years ago, the fixed cost of cremating a body in Odessa was 840 hryvnia, or about $32.14, according to one Ukrainian report.

By comparison, traditional burial services (a grave plot, grave digging, coffin, and mortuary refrigeration) cost in Tbilisi, on average, 1,500 laris, or about $630.20, depending on location. Prices at private cemeteries can be more than double that.

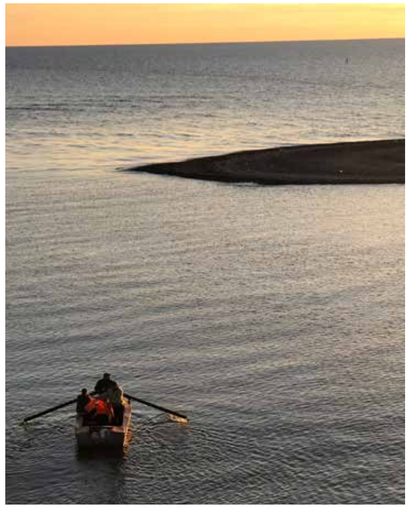
First Deep Sea Port / First Crematorium
Anaklia, Georgia





The Master planning of the site was based on the path that pass through the layers in Anaklia – from the port – city – river, framing the melancholy scenery and by the gesture of crossing the river to get to the crematorium to create a ritual of remembrance as collective memory. Moreover, using the logistic infrastructure provided by the port development, contradicting the sacred space with the industrial and logistical spaces to evoke fascination of Anaklia's future with the port development. By the transformation from death to collective memory, mark a columbarium as an unchanged territory and monument on the river island.

Border of Life & Death
Crossing River as Ritual



Enguri River, Anaklia, 2018

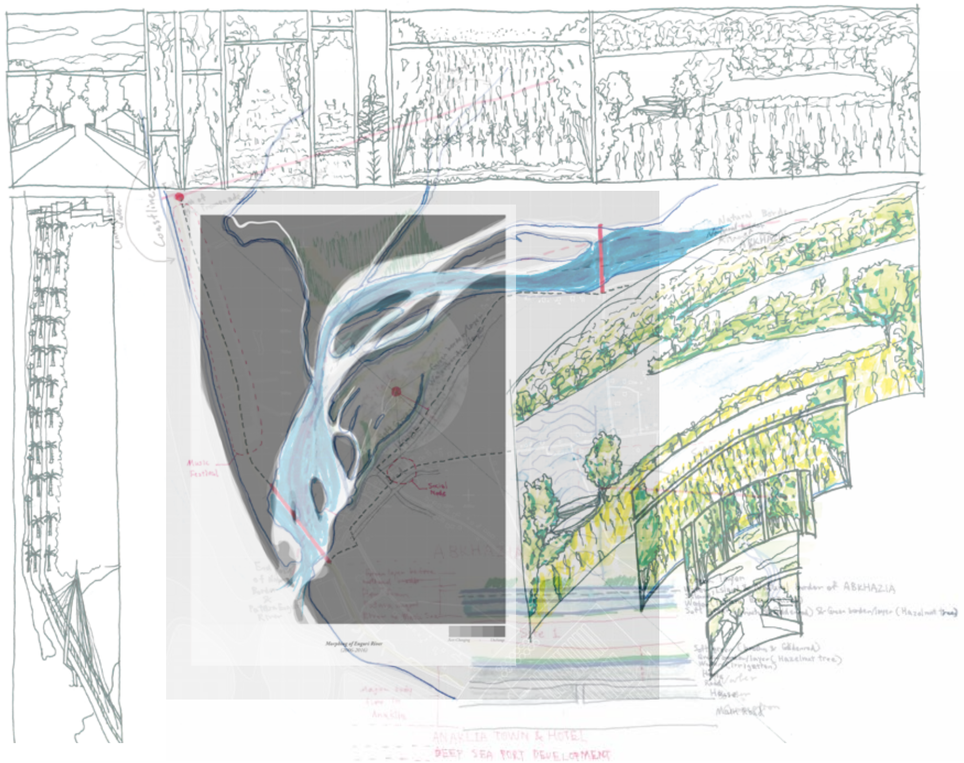
Charon, The Ferryman of Hell, Gustave Doré, 1861

[Charon. - Poem by Robert Crawford]

Who goes across those waters
On which the Moon ne'er shone,
With the passenger he came for
As in a dream moved on?
Cypress and yews o'ershadow
The verge on either side,
Within whose boughs for ever
The winds of woe abide.
And all the air is haunted
With a wail that seems to flow
From the living lips of Sorrow
As the ages come and go.
The boatman, dumb and hoary,
Pulls with a steady pull,

And the dead man seems to listen
To voices beautiful.
And it may be the weird River
Has sights we cannot see,
And the far shore burns its signals
Of eerie mystery.And Charon knows each signal
—
Above the River's rim
The spectral lights that glimmer
Are pilot-stars for him.Ay me!
he knows the water
As few, few boatmen know;'
Tis not the first he's taking
Down where we all must go!

Site Mapping

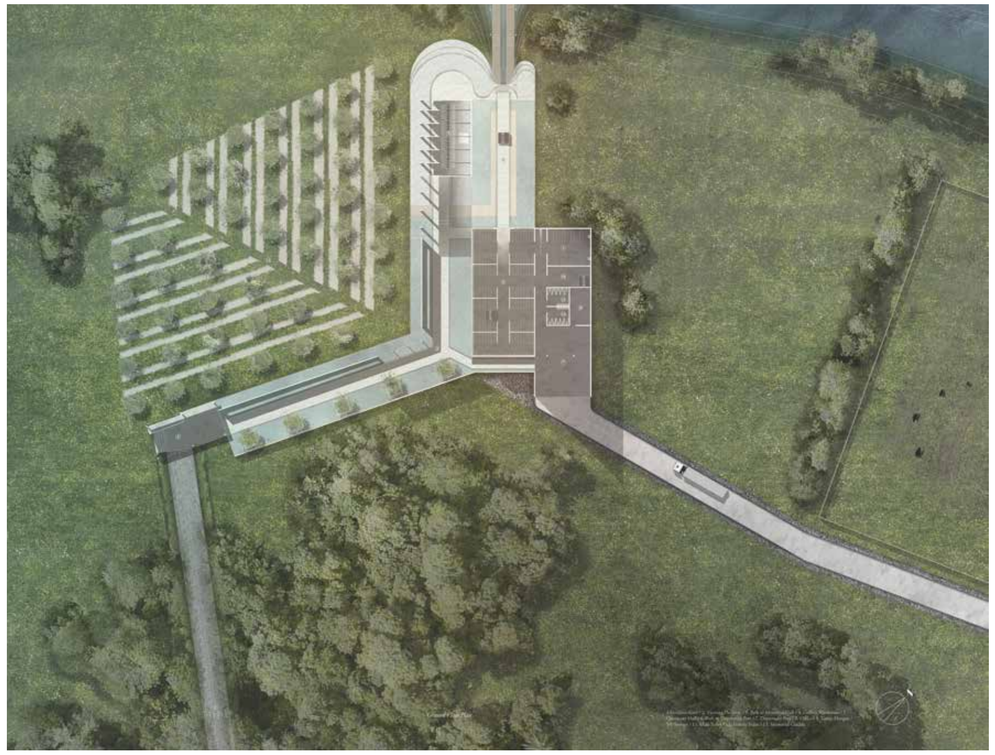


Axis & View Mapping

Framing of View & Layer
[Black - Axis of Life]
[Red - Axis of Death]

1.Entrance Gate / 2. Viewing Platform / 3. Path to Memorial Hall / 4. Coffins Warehouse / 5. Ceremony Hall / 6. Path to Departures Port / 7. Departures Port / 8. Office / 9. Temp. Morgue / 10. Storage / 11. Male Toilet / 12. Female Toilet / 13. Mountain of Memory / 14. Columbarium / 15. Committal Chamber / 16. Viewing Harbour / 17. Memorial Garden

The Promenade



[Layer on Path] Nature - Nature

[Layers on Path] Manmade - Nature

[Change of Structures along the Path] Port - Border

[Change in Buildings along the Path] Town

FrontStage

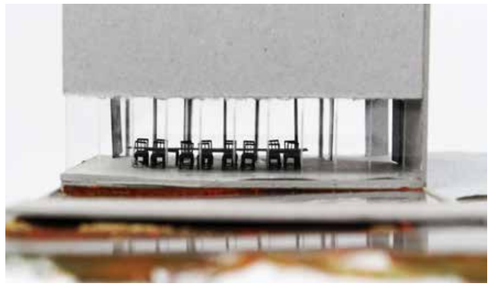
[Axis of Life]
Framing of Melancholic Scenery

BackStage

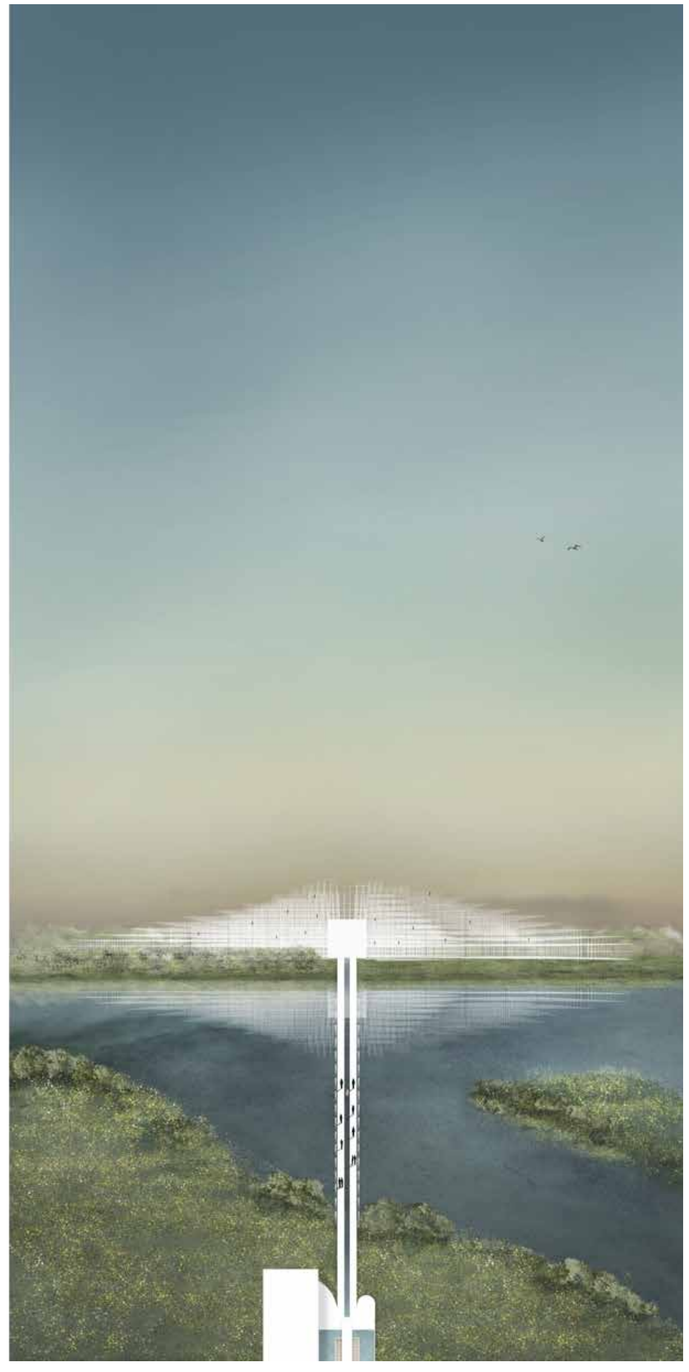
[Axis of Death]
Logistic and back stage of the crematorium.

These two paths meet in the middle of the journey, but the visitor will not be able to realize that they are walking alongside with the coffin's warehouse until they are close enough to it.

Ceremony hall
Feast for the living and ceremony of death

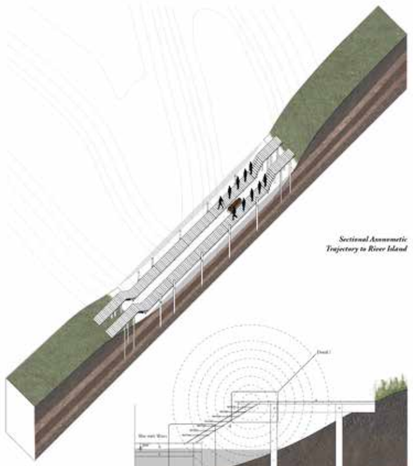


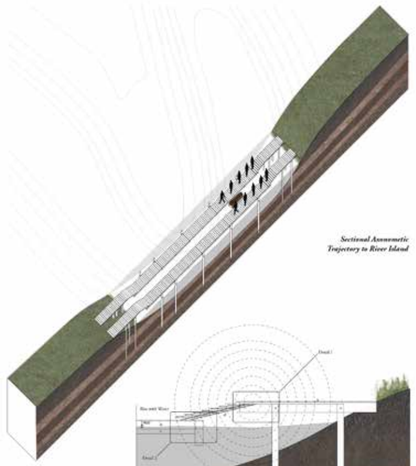
Ritual



[Ritual of remembrance - The bridge as Promenade of life & death]
Connection between the mainland & the crematorium on river island

Rise & Fall with water
Reflecting the change of water level.

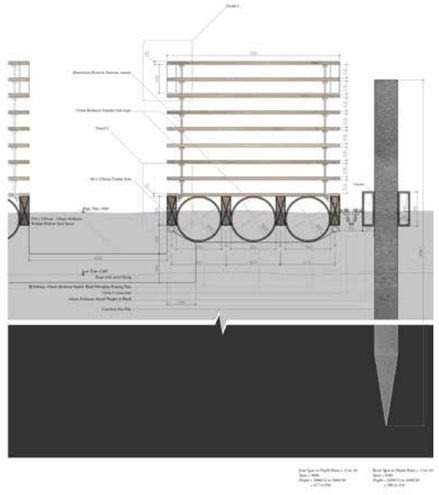


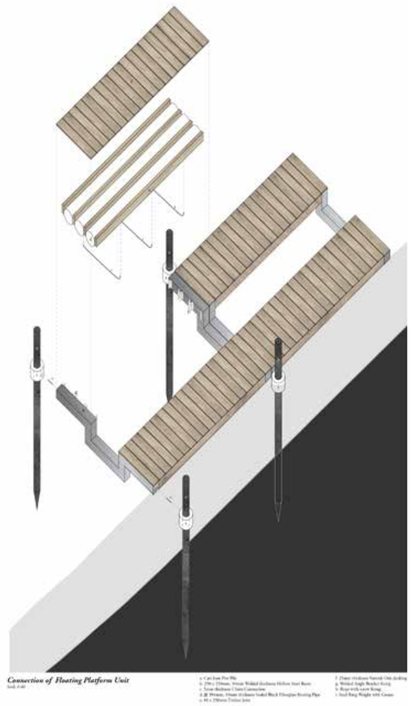


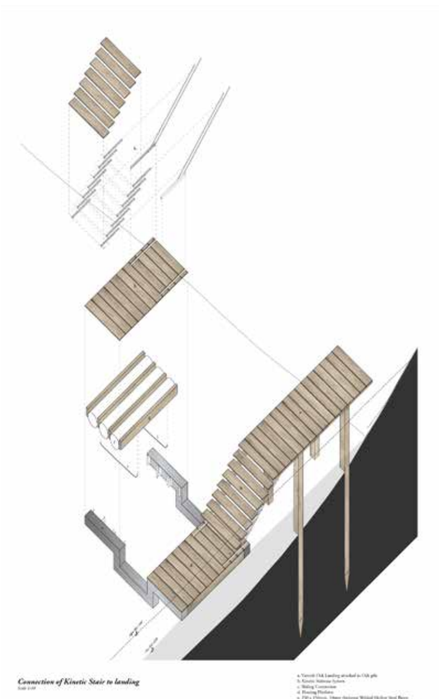
[Technology - Crossing Enguri River]
Minimize the environmental impact, react to the change of the Enguri River.

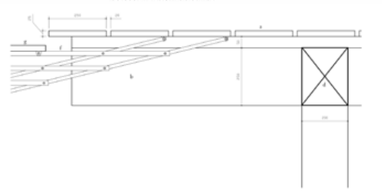
[Ritual of remembrance - The bridge as Promenade of life & death]
Connection between the mainland & the crematorium on river island

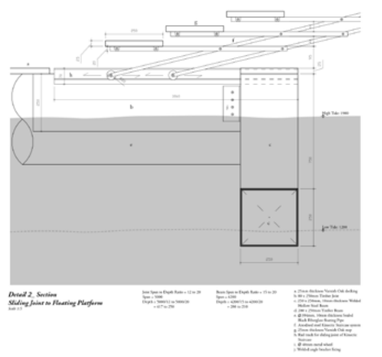
Rise & Fall with water
Reflecting the change of water level.





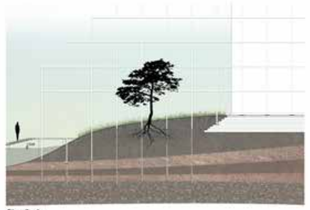




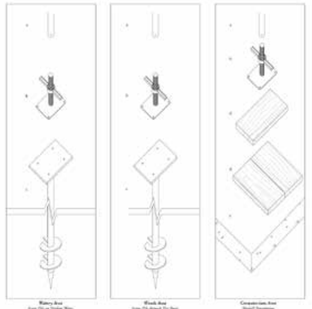


Scaffolding on River Island

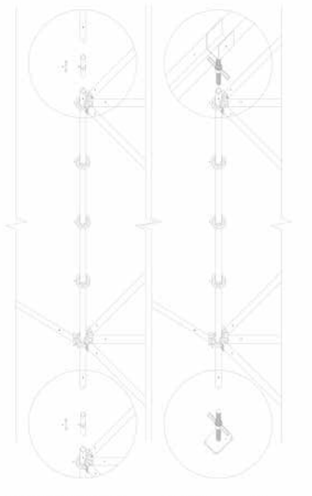
Footing systems applied on different area on the island to minimize the impact for the existing environment.



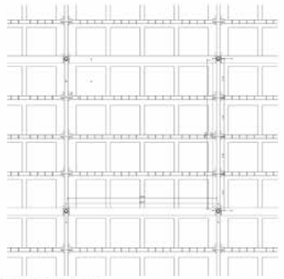
River Section
Minimal environmental impact to River Island



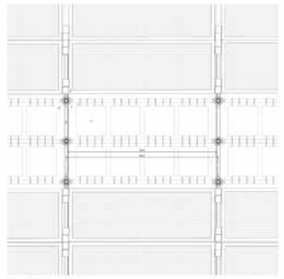
Foundation System of Scaffolding Columbarium
Minimal environmental impact to River Island



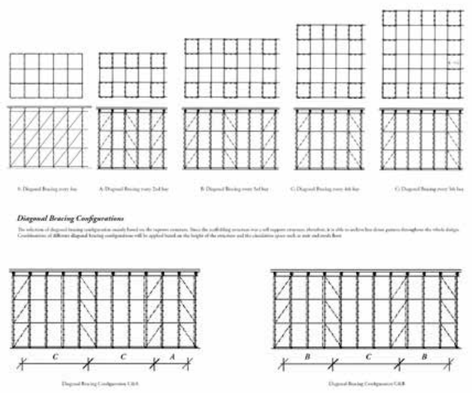
Axonometric of Scaffolding Columbarium
Typical Connection



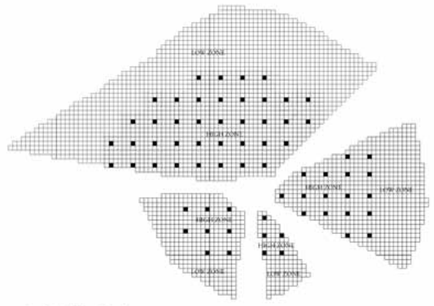
Section of Scaffolding Columbarium



Plan of Scaffolding Columbarium



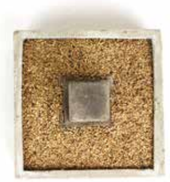
Diagonal Bracing Configurations

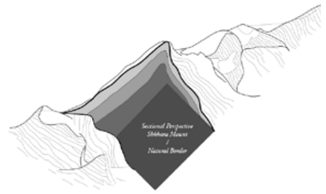


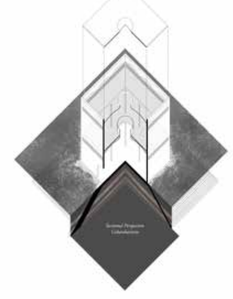
Master layout plan of Scaffolding Columbarium

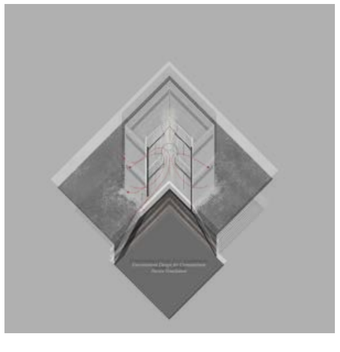
STRUCTURAL GRID FOR SCAFFOLDING COLUMBARIUM

Mountain & Worship



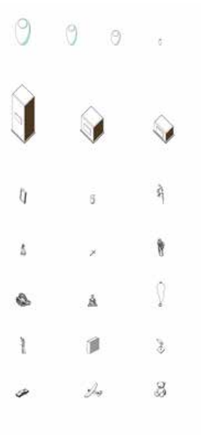


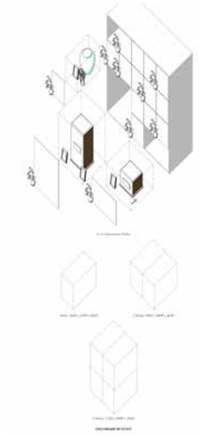


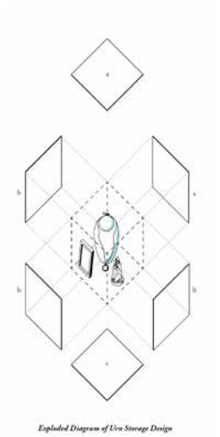


Highest point in the nature for worship, a stair-like foundation structure will be hidden under the earth, and it will be reveal when the river line changes.

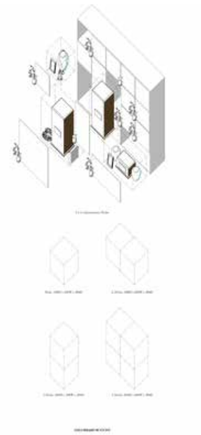
Urns Storage

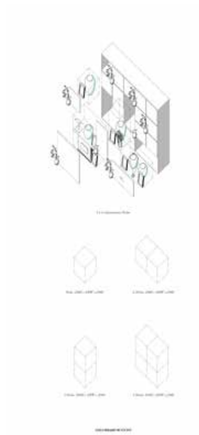


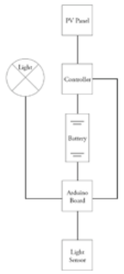




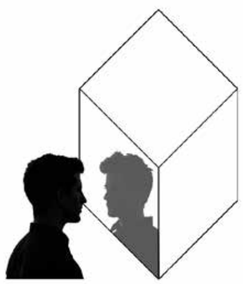
Exploded Diagram of Urn Storage Design







Circuits of Environmental Lighting Design

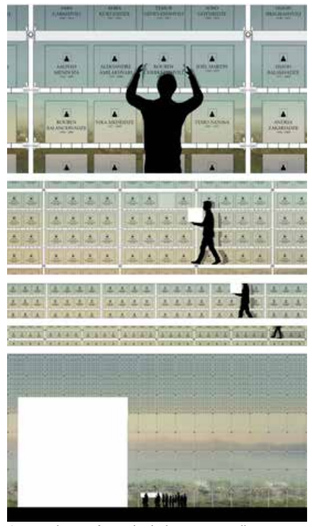


Day

Night

a. PV panel with lighting panel
b. Single sided Mirror
c. Double sided Mirror

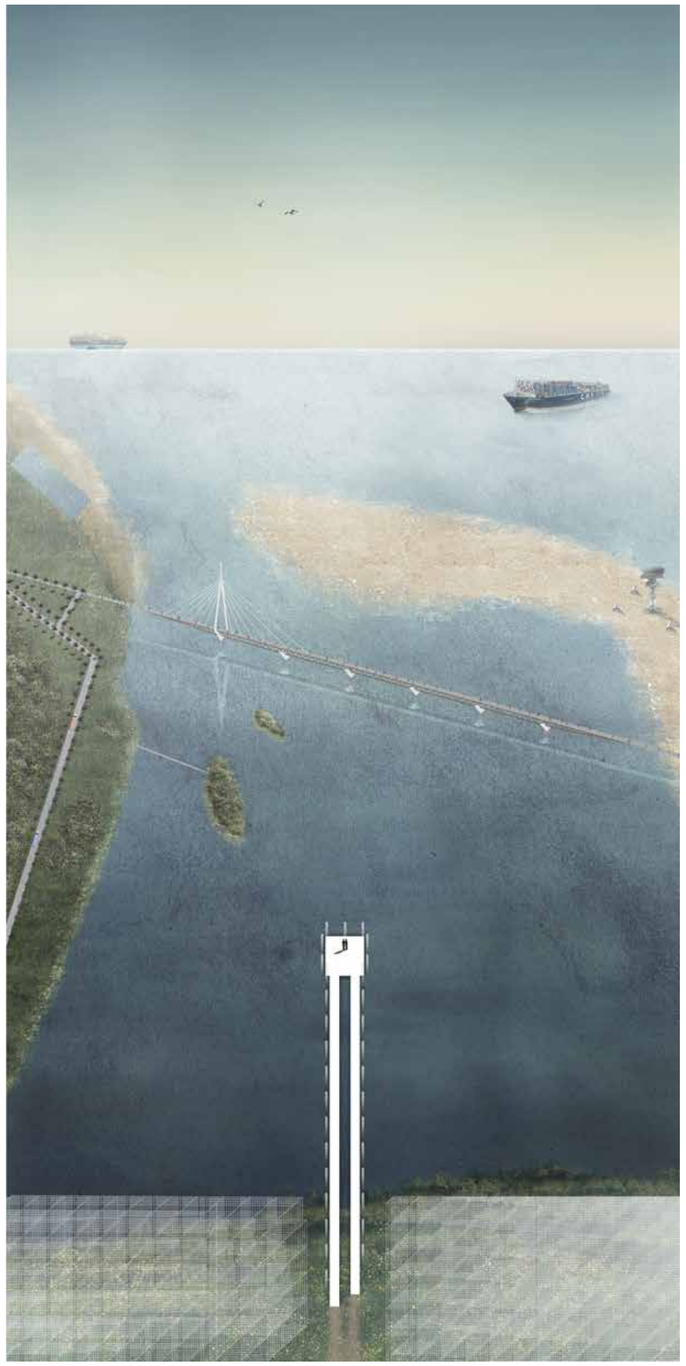
Ritual of remembrance



Sequence that transform individual memory into collective memory

Experience towards the columbarium

End of Promenade



The Pier
Overlook the melancholic scenery of Black Sea with existing promenade's bridge & the cargo ship moving towards the deep sea port

On the way back

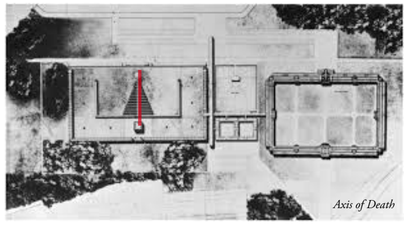
Scenery that mixes sacred space, industrial port and undeveloped nature in Anaklia

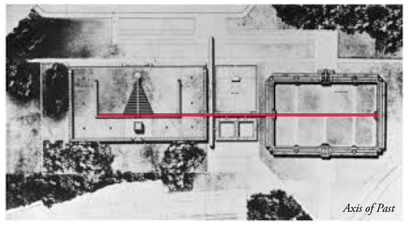
Research Study

San Cataldo Cemetery

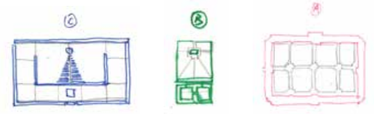
1971, Aldo Rossi

| Supervisor: Ms Charlotte Grace, Ms Maria Alexandrescu |
| Site Location: Modena, Itlay |

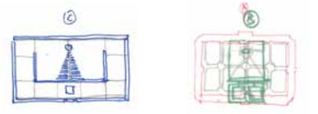




San Cataldo Cemetery Plan, Aldo Rossi, 1971-1976



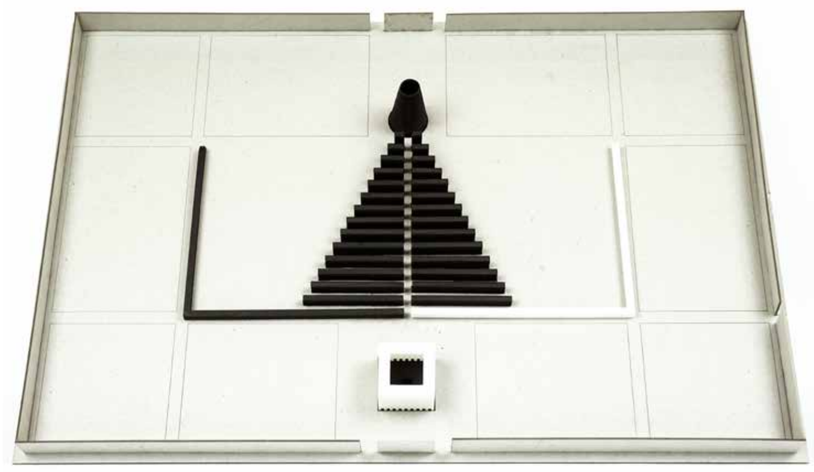
San Cataldo Cemetery *Jewish Cemetery* *Cimitero San Cataldo*



Master Plan of the San Cataldo Cemetery based on the past

The cemetery has no roof, floors, windows or doors; instead it is only a shell with openings. Some of the openings are for light, others for views, access, and even containment of cremated bodies. Many do not hold this building in high esteem, as they find it depressing or ugly.

But Rossi has found a way to make architecture metaphysical; the visitor is inevitably confronted with the thought of death, "The Axis of Death" and "The Axis of Past", where truths are constant and irrevocable.



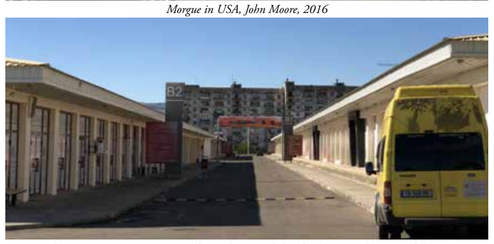
Model to study the incomplete part of San Caralado Cemetery, 2018
White / Built
Black / Unbuild

San Cataldo Cemetery drawing, Aldo Rossi, 1972

Piazza d'Italia, Giorgio de Chirico, 1913

Warehouse in Amazon fulfillment center, Irvine

Morgue in USA, John Moore, 2016



Warehouse in special economic zones frame the view of abandoned massive housing, Tbilisi, 2018

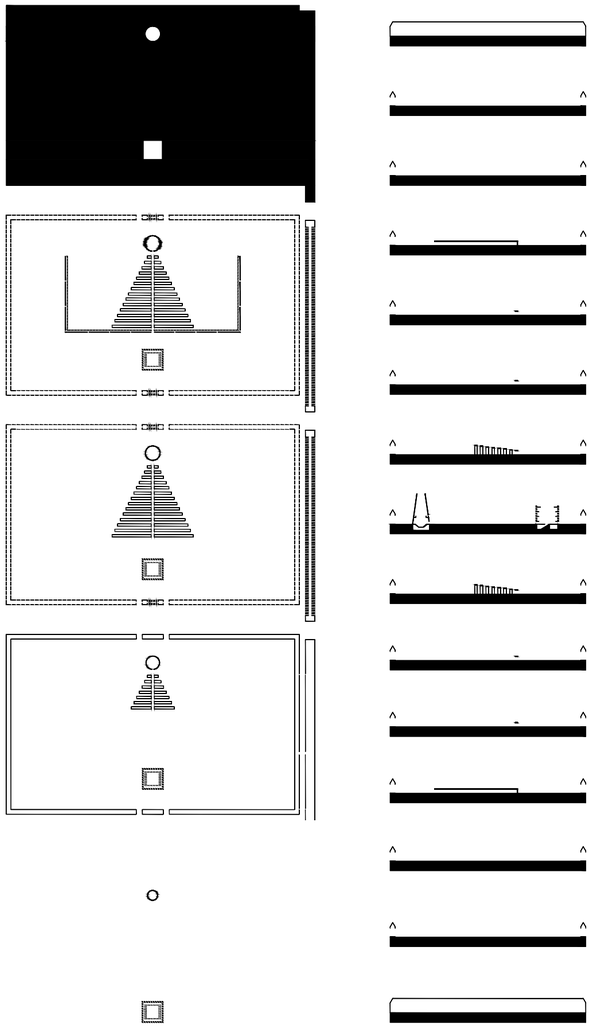
In case to present the built and unbuild scenery of the project at the same time. It requires a manipulation of the space, layer, path and view in the function of time, a metaphysical level of representation.

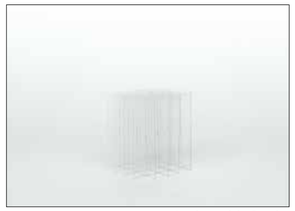
Using painting as a study method, follow the metaphysical painter Giorgio de Chirico (10/7/1888 - 20/11/1978), an Italian artist and writer which profoundly influenced the surrealists. There is a rumour that Rossi's architectural drawing in relation to De Chirico's paintings and De Chirico's influence on Rossi's concept of design in order to evaluate the value of metaphysical expression in architectural presentation and on contemporary trends in architectural thinking.

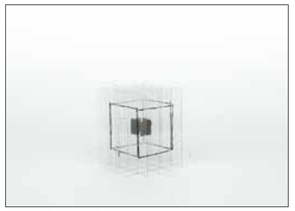
After studying the drawing and metaphysical concept, an Unseen drawing that comply the drawing style of both Aldo Rossi & Chricio was drawn.

Unseen View
Reversed the built and unbuild elements, create illusion and reimagine the spatial volume and relationship through painting

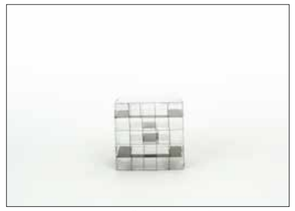
Space / Layer / Axis





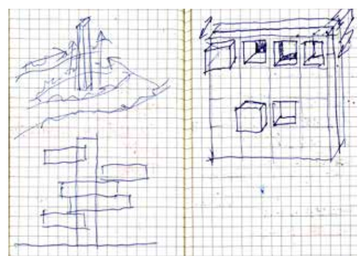


Study model of exploring space through Slicing



Study model of exploring space through Slicing & Compressing

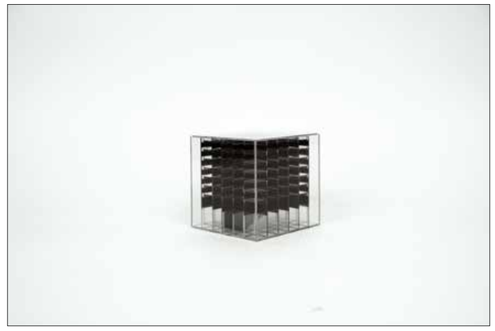
Design Sketches for Projective View Model

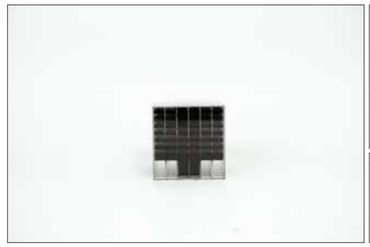


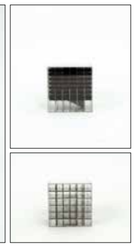
Final Study model for Projective View Model

Diagram, 2018
Slicing through the space and architecture as a study, to observe the change in the form and volume in relation to the Axis of Death in San Cataldo Cemetery imagining as it's complete.

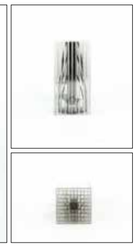
Projective View



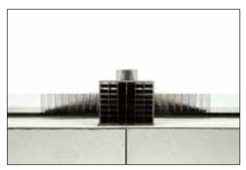


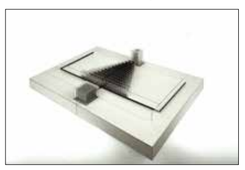


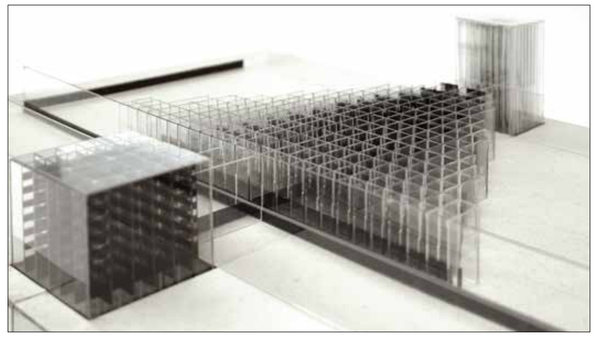
Projective View
Built Monumental Element in San Cataldo Cemetery.



Projective View
Unbuild Monumental Element in San Cataldo Cemetery.







Model of slicing through the space of San Cataldo Cemetery as a study

Alboraya Bathhouse & Brewery

2018 | MArchD Year 1

| Supervisor: Dr Julia Wedel, Mr Sam Woodbridge, Mr Matt Gaskin |

| Site Location: Alboraya, Valencia, Spain |

| Project Nature: Community Hub for Locals & Tourist |

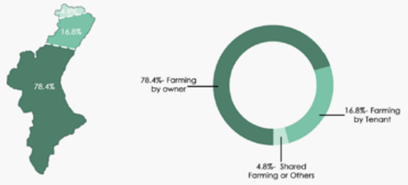
Site Background

Proposed site located in City of Valencia, Spain. It's nearby the southeastern coast.

The site is on the boundary of the city centre and connected with Alboraya town. There are few more small town like Alboraya within the city centre.

Although most of the small city is surrounded by rustic area(protected farmland) as shown, the rustic area is actually under the threat of urbanization.

LOW IN UTILIZED AGRICULTURE AREA



Holder		Holding size	UAA
51%		0-5 HA	4%
25%		5-20 HA	11%
11%		20-50 HA	14%
10%		>50HA	71%

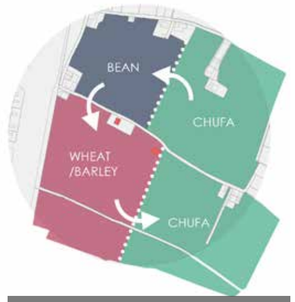
Most of the rustic area in Spain is farming by owner, but the current situation is that over half of the land is on small farm holders(0-5 HA) hands but they only utilized 4% of it.
On the other hand, large farm holders(>50HA) hold only 10% of land but utilized 71% of it. It somehow explains why small farm earns less in Spain is because they didn't utilize the farmland.

LACK OF SUPPORT TO LOCAL FARMER

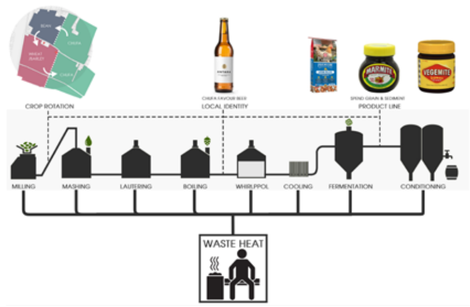
Another issue for the local farmer is that small farm holder are unfavored in most of the situation and policy. Such as low is financial budget and expense from the city council, organic certification, food safety, change of shopping habits and marketing or EU commission fertilizer policy.

URBAN AREA GREEN AREA RUSTIC AREA

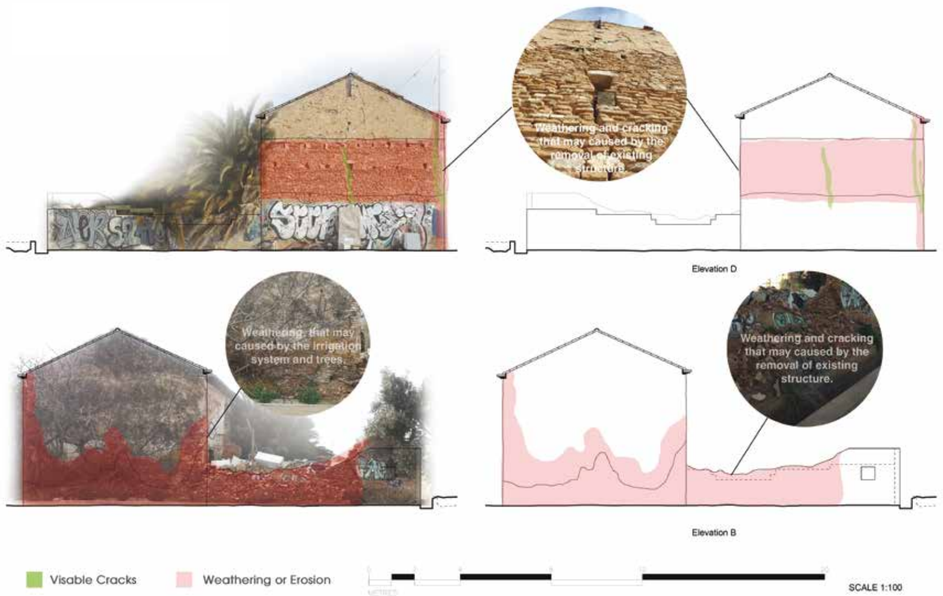
Greenhouse Market

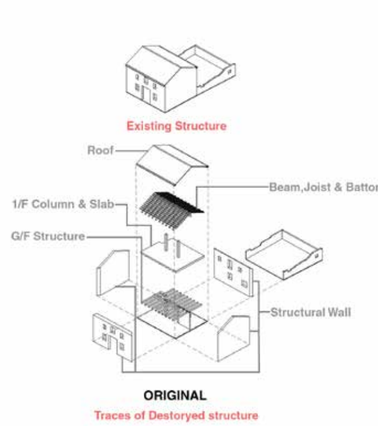


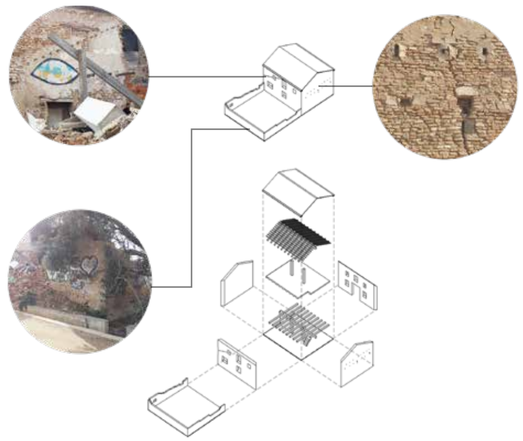
Crops Rotation Farm



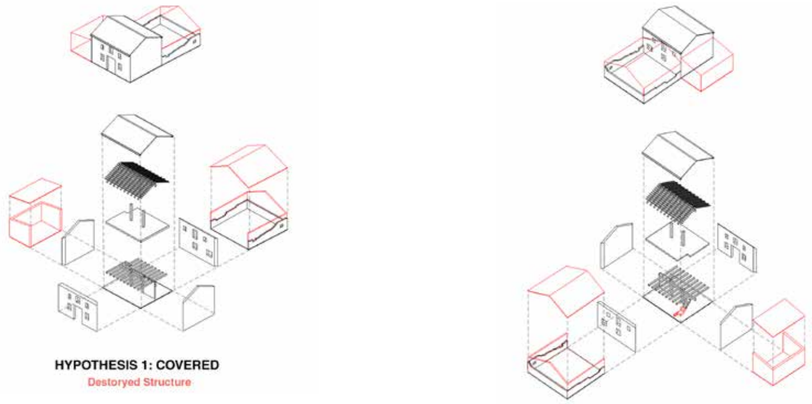
Production House



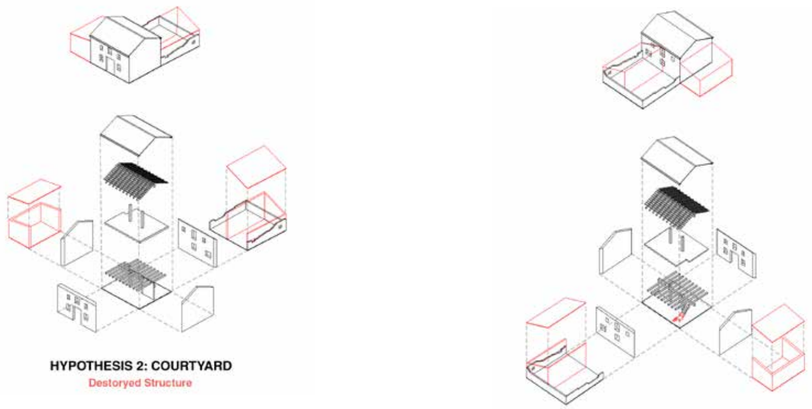




The historical footprint showing that there is some destroyed structure within the existing structure.

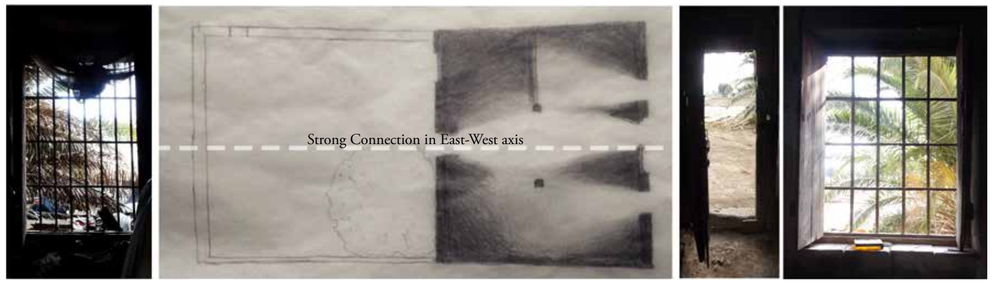


Hypothesis 1: A small barn attached to the side and a big covered courtyard based on the leftover wall structure.



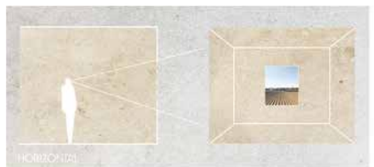
Hypothesis 2: Same as 1 but the courtyard was just half coved based on the Alqueria document. This hypothesis seems more feasible since there is a tree in the opened half courtyard currently.

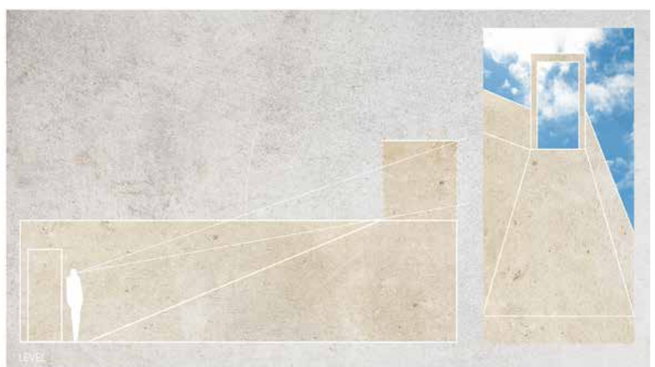
Light & Space



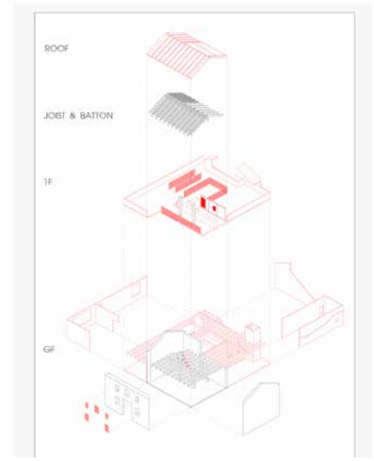
Light & Spatial relationship in current building

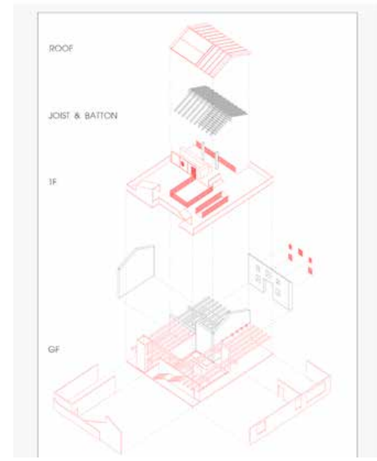
The traditional design of Alqueria creates a limited opening just for introducing nature lighting and ventilation. This lead to a picturesque effect of framing and draw in the exterior rustic area view into the building.
In the above pictures, it shows this framing view opening in Alqueria becomes a strong architectural language.

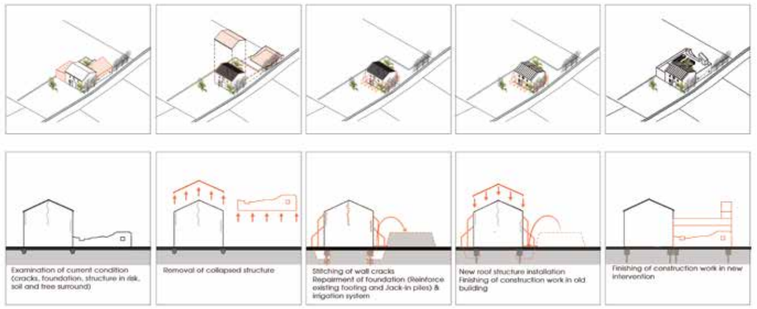


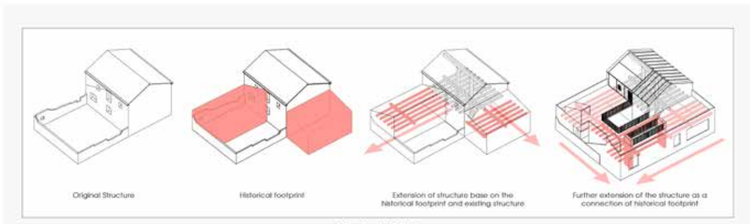


Old & New

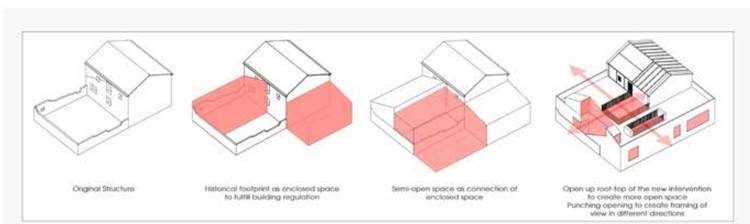








Structural Design



Space & Form Design

Plan

Ground Floor Plan

First Floor Plan

Elevation & Section

Elevation A

Elevation B

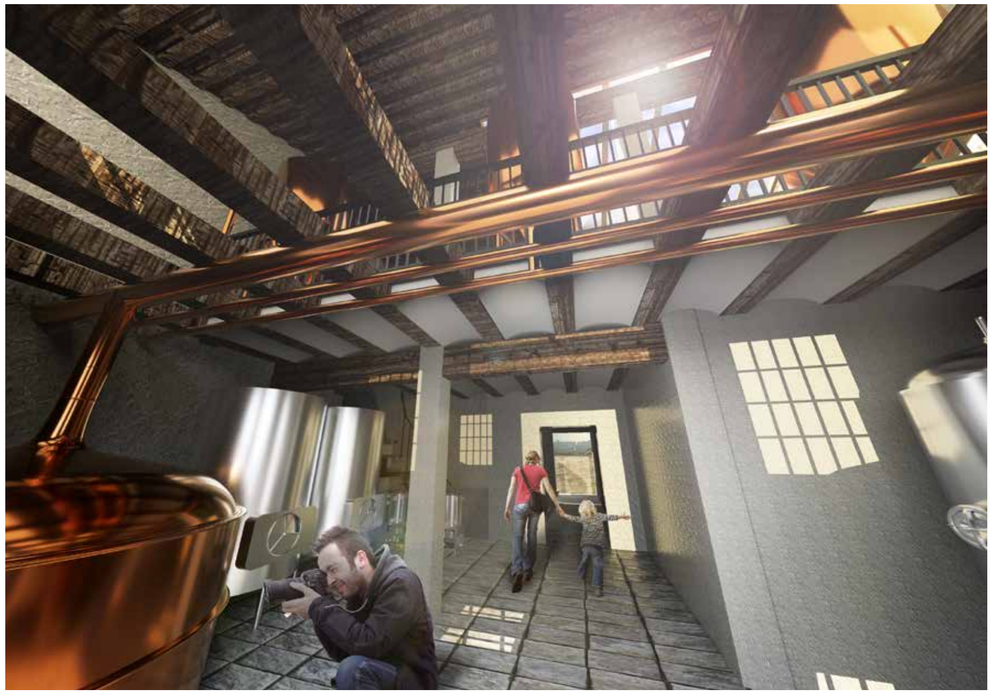
Elevation C

Elevation D

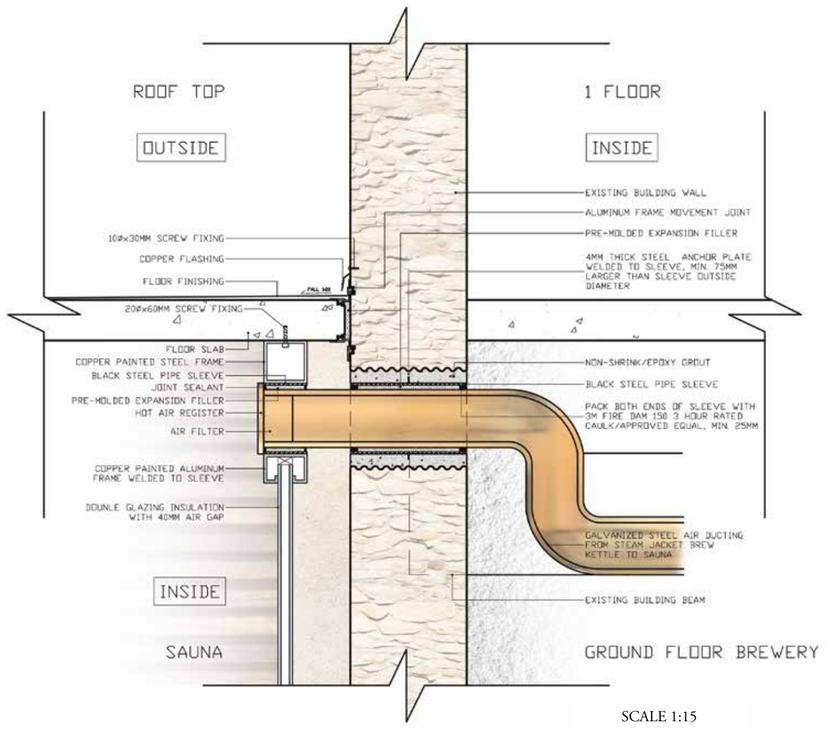
Brewery

Bathhouse

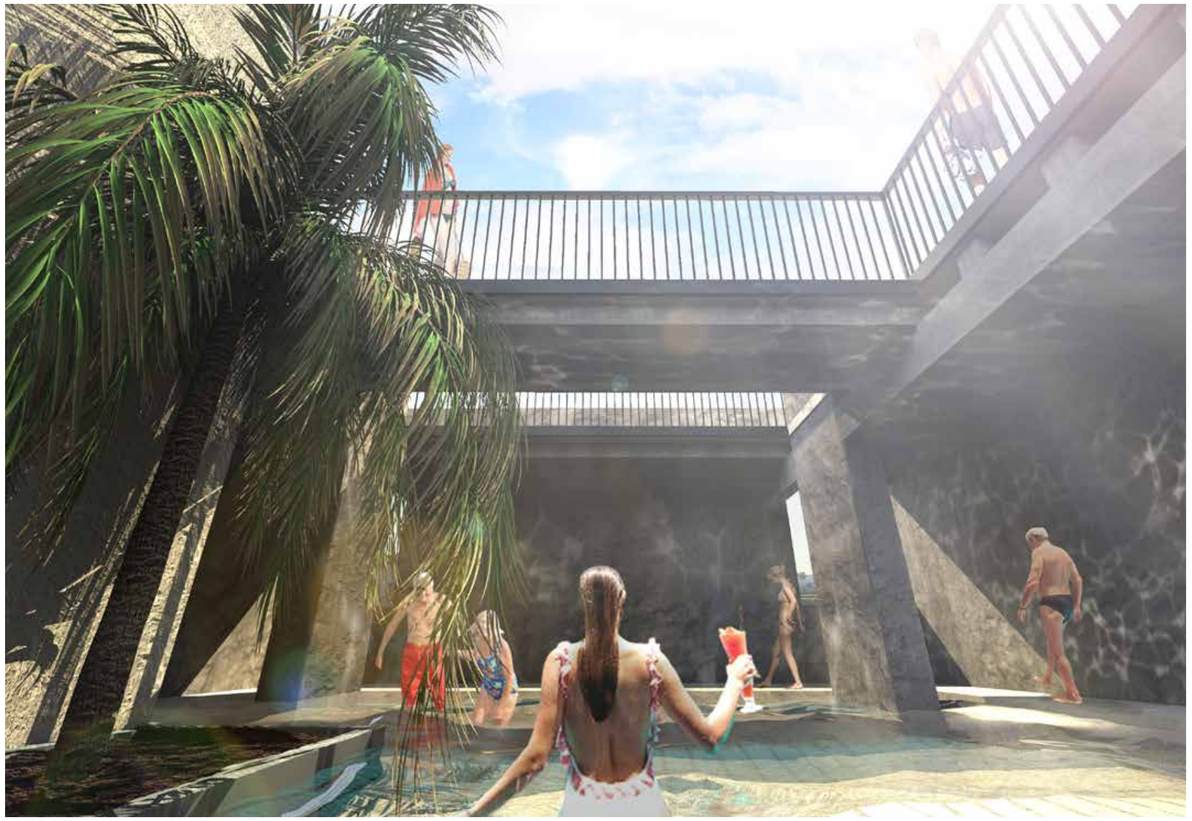
Bathhouse Brewery
Heat Reuse from Production Process



Environmental Design
Heat Reuse from Production Process



SCALE 1:15



Central Cold Bath Area

Corridor View of Junction Space

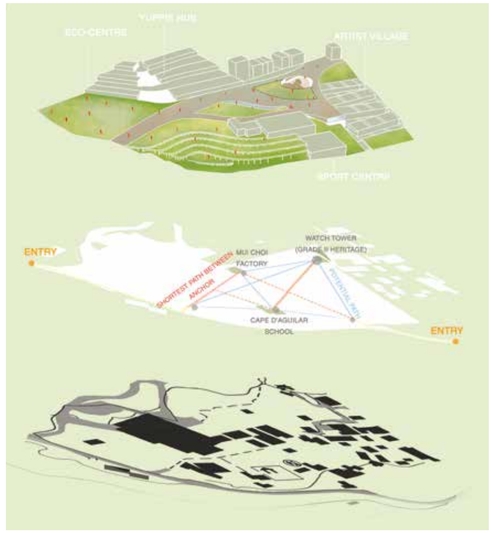
The Cave Studio

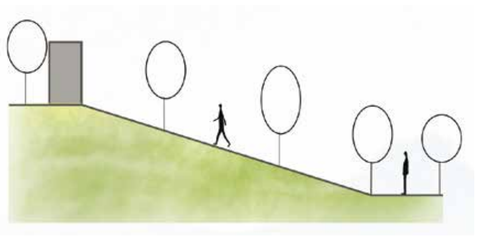
2016 | BScAS

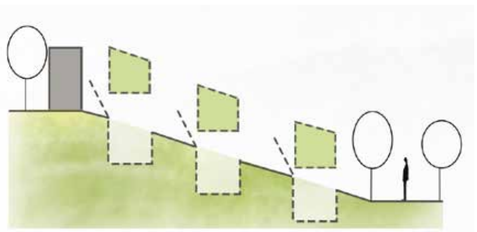
| Supervisor: Dr Charlie Xue |

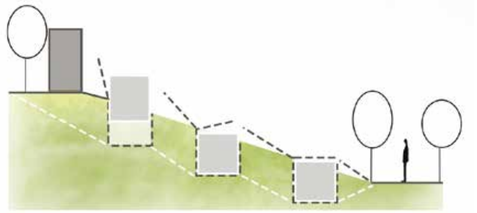
| Site Location: Cape d'aguilar, HK |

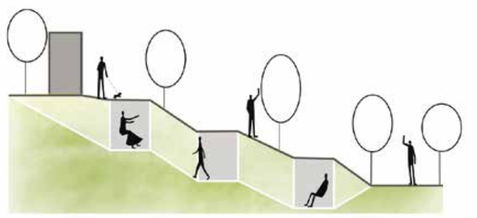
| Project Nature: Artist Village |

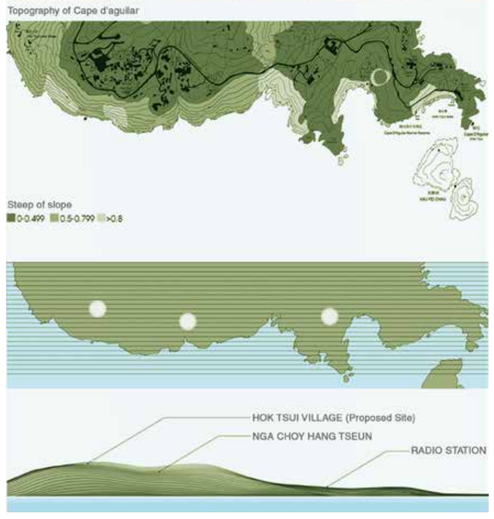






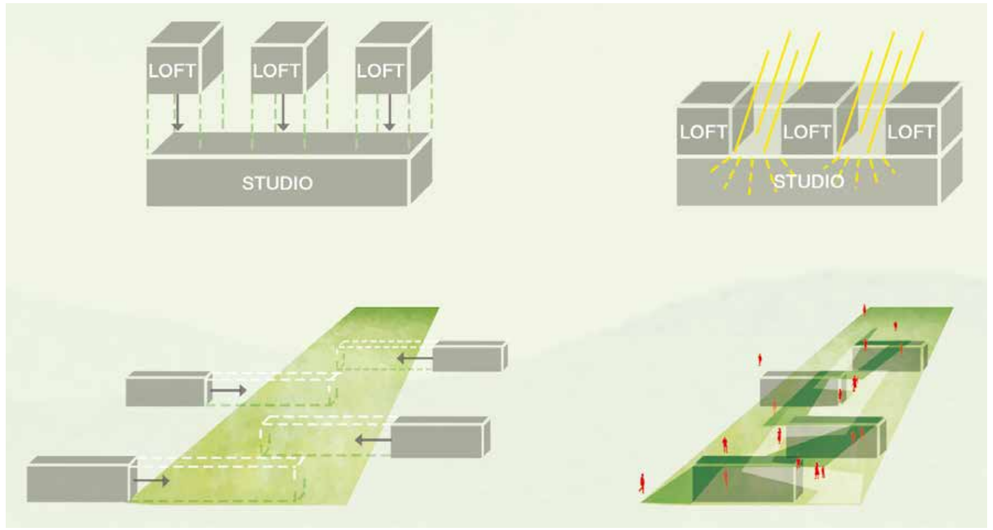




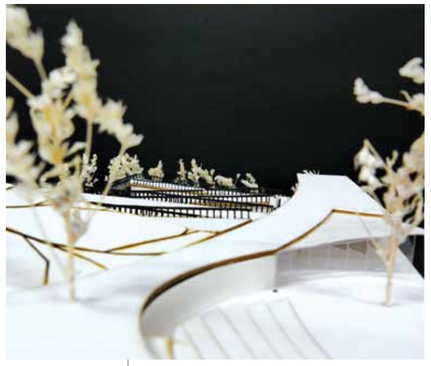


The Cave Studio is an artist village as part of the master plan development project (Group work) in Cape D'Aguilar(Hok Tsui Village), HK. The masterplan is to encourage much walking and exploration of the site, by submerges and excavates spaces, the design conceives the outer and inside routes around the rooftop level with pockets of voids/courtyards in between. The building design is to integrate and promote the landscape and rural spirit of Cape D'Aguilar by vernacular architectural design.

Master Planning

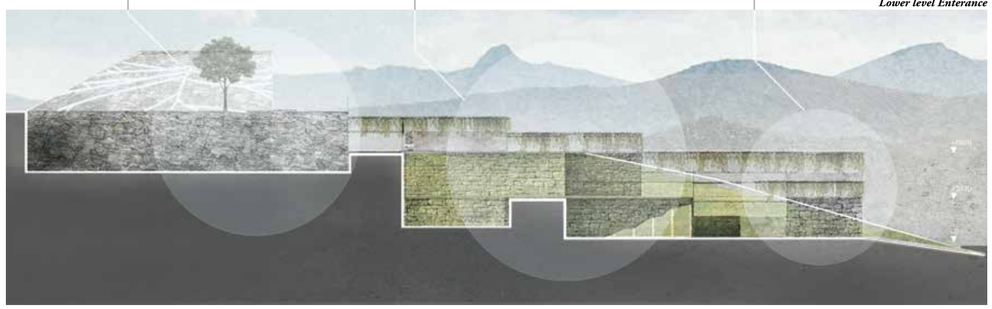


On the Cave



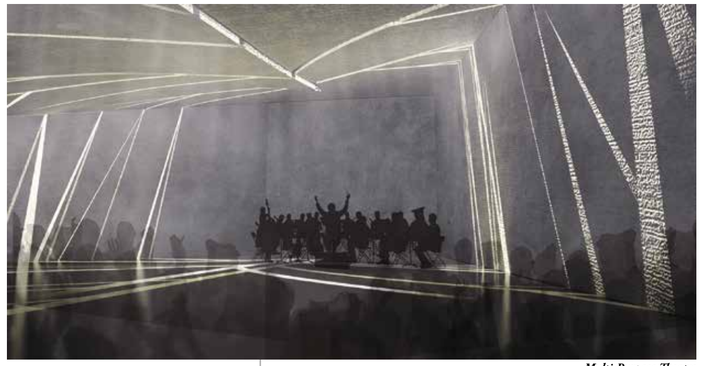
Walk through the Cave

Lower level Enterance

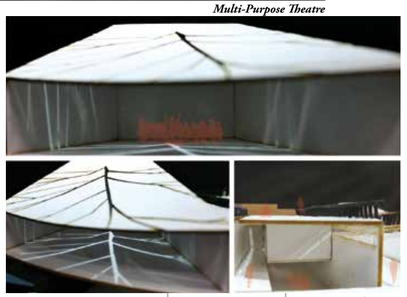


The design of The Cave encourage exploration of the Cape D'Aguilar landscape by connect the outer and inside routes of rooftop level with pockets of voids/courtyards in between.

In the Cave

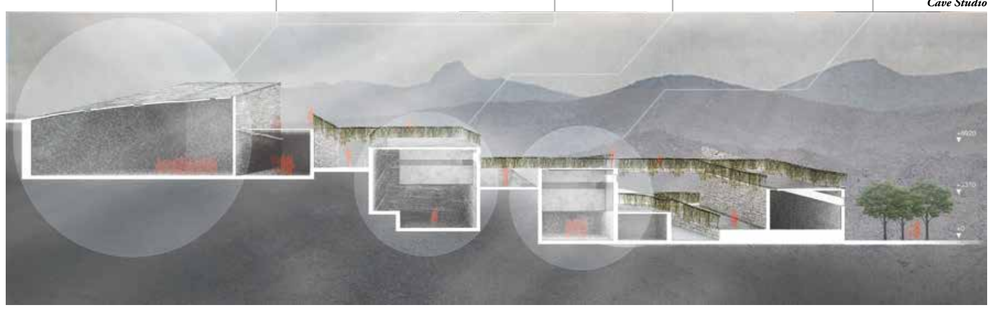


Multi-Purpose Theatre



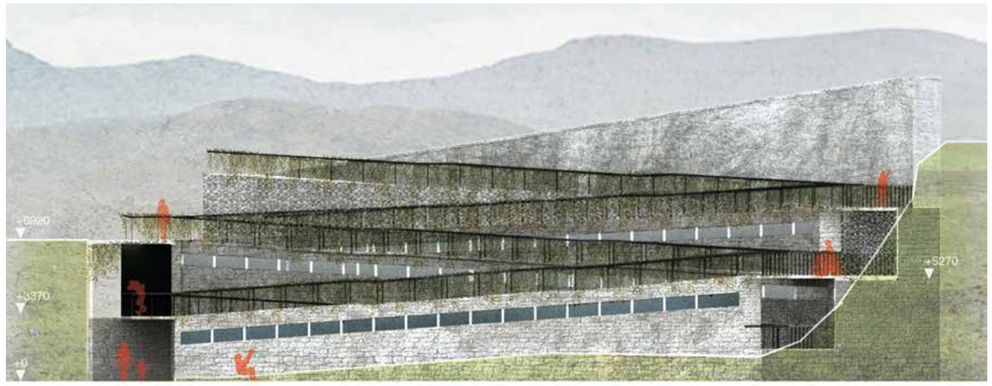
Loft House

Cave Studio

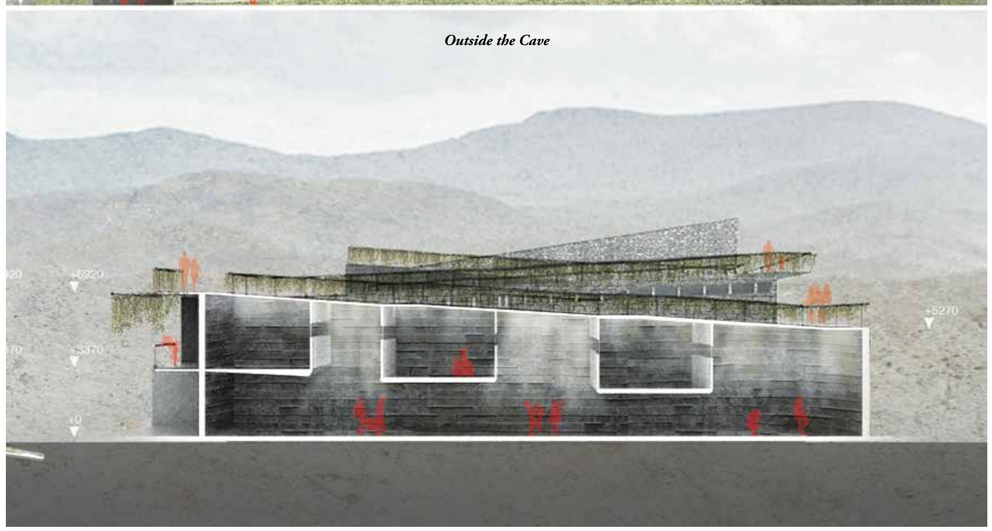


The lighting design of The Cave is to using cave like lighting strategy to create spatial connection between interior and exterior, above ground and below ground, light as a indication of space.

Inside & Outside the Cave



Outside the Cave



Inside the Cave

The Cave Studio

VegeTower
2015 | BScAS

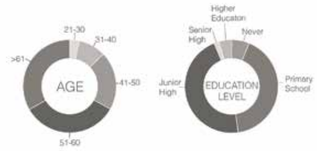
| Supervisor: Dr. John Cheng |
| Site Location: Mong Kong, HK |
| Project Nature: Social Enterprise Vertical Farm |

Site Background

Homeless born or made?

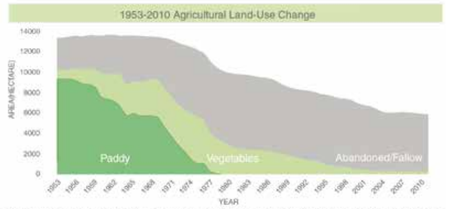
According to Social Welfare Department of HK, HK have over thousand of Homeless ppl in 2015. Is there any way to bring them back to the society?

Over half of the Homeless ppl in HK are dwell in Sham Shui Po & Mong Kong District.



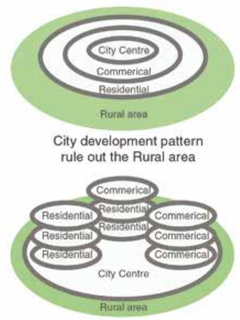
Over 40% of Homeless ppl in HK are willing to work but hard to find a job because of their age, education level and no address. Back to the old days, this group of ppl mainly work in factory or farming industry.

MongKok used to be a Hakka settlement, with about 200 villagers according to Bao'an records in 1819. The villager mainly work in agriculture and farming industry during that time.



The numbers of Agricultural land dramatically decreasing since 1953. Nowadays, less than 10% of Agricultural land was use as farming purpose, other 90% are abandoned or owned by developer for applying change of land use. It makes Self-Sufficient farming impossible.

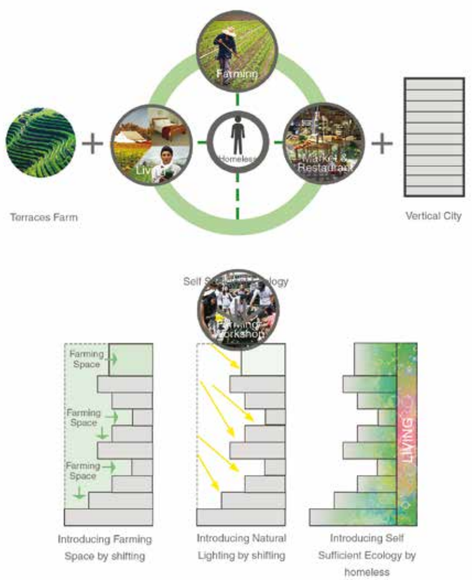
Initial Concept



City development pattern rule out the Rural area

Vertical City lost the connection to Rural area

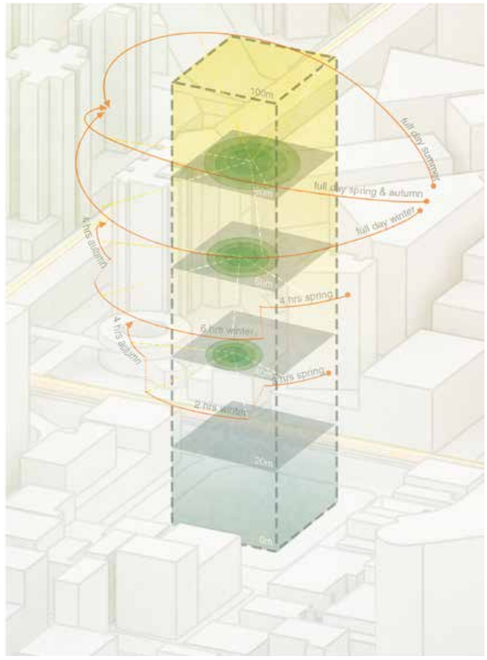
Urban farm as Rural area to re-connect the program in highrise

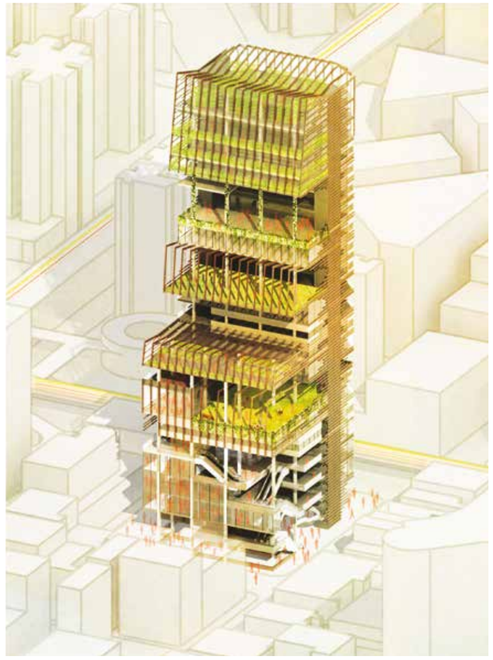


Biodiversity

The theme of "Vegetower" is "biodiversity", according to census department stat, the numbers of homeless people in HK gradually increasing every year. But, the fact is most of them are able and willing to work, in "Vegetower", we will provide working opportunity in the farm to the homeless people in HK. To help them re-enter the society.

Programming

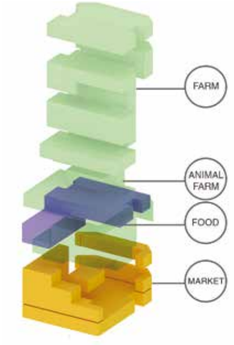




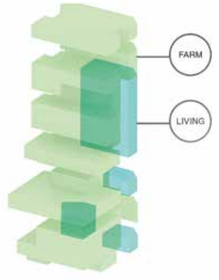
The amount of farming area were based on the sunlight distribution into the building in different levels.

Carve out space base on sunlight distribution

Circulation go through all urban farm and other function

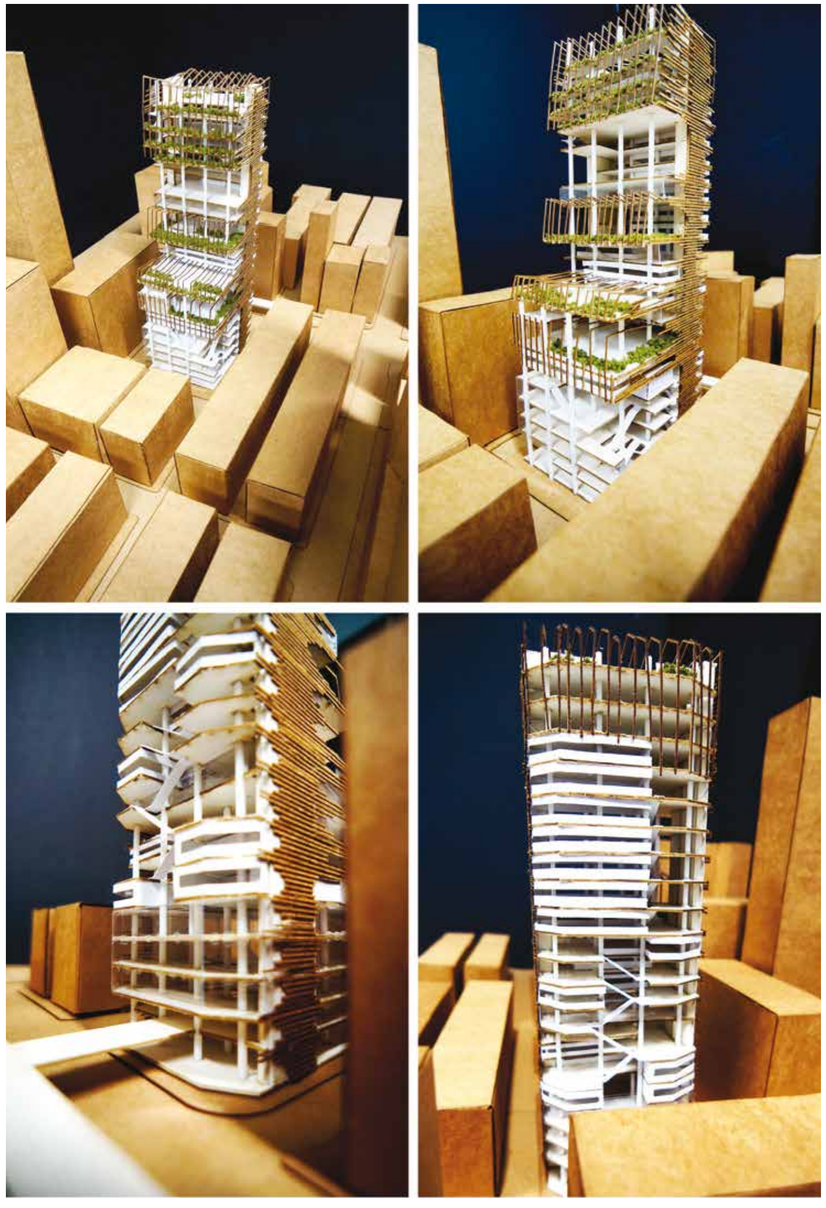


Overlap programme to create interaction of human & animals.

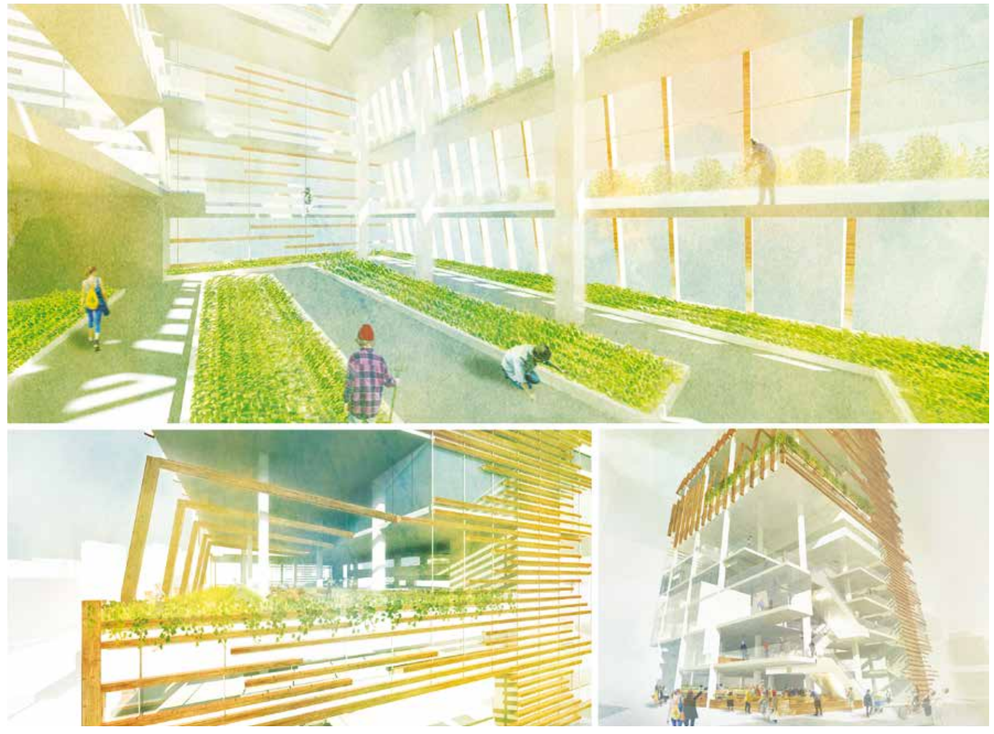


Overlap farm and living area to create interaction betwenen human and nature.

High-Rise Farming



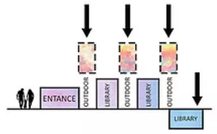
High-Rise Farming



Pinocchio Library Design Competition
Into the Woods

TYPICAL LIBRARY LAYOUT

TAKE OUT THE ENTRANCE AND STRETCH THE SPACE TO DESIGN JOURNEY FOR CHILDREN



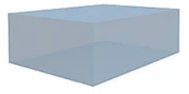
INJECT OUTDOOR SPACE IN BETWEEN TO CREATE ADVENTUROUS EXPERIENCE FOR CHILDREN

REFORM LANDSCAPE AND ADD IN CONNECTION TO ENRICH THE ADVENTURE

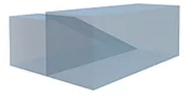
ADVENTUROUS EXPERIENCE FOR CHILDREN

This project translates the story of Pinocchio, the adventure of his growth into a sequence of imaginative space, reflecting Pinocchio's bravery spirits and his learning path for the children visits the library. Visitors will experience the spirit of adventure through a sequence of homogeneous indoor and outdoor space. An underground tunnel is designed to anticipate and raise the sense of courage of the visitors when they travel within outdoor and indoor spaces.

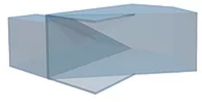
West Kowloon Cultural District Art Pavilion Design Competition
Inter-School Finalist



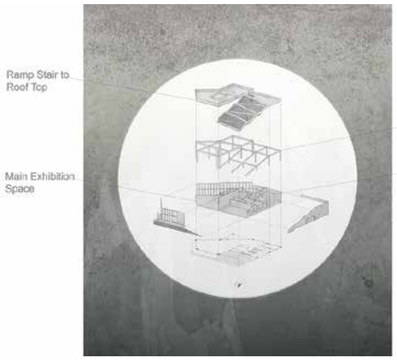
Start with a big exhibition space

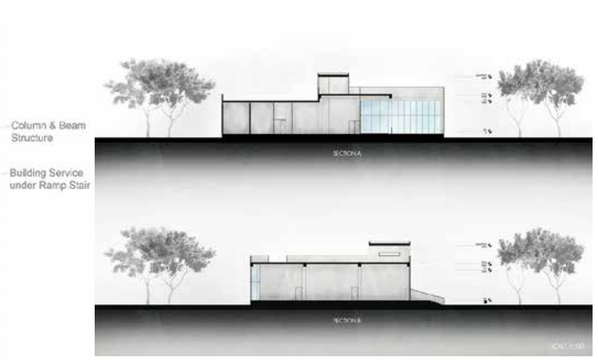


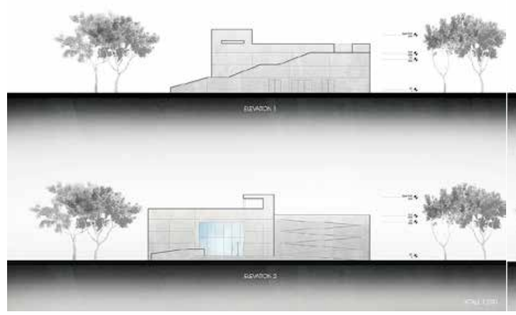
Higher headroom for exhibition space and deform to create public space connect M+ and waterfront

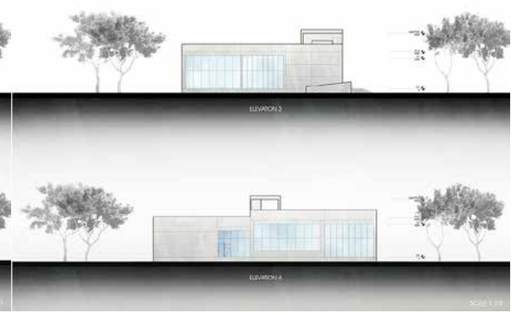


Cut out the corner and move to side to create outdoor space facing waterfront and maxiumize the view of coast

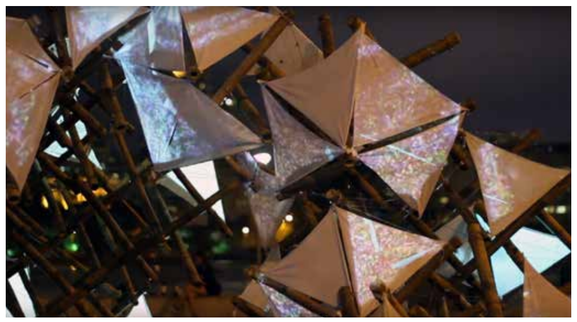








3D Projection Mapping Installation
Cloud Pavilion 2016



A collaboration between architecture students from the University of Saint Joseph and City University of Hong Kong, the Cloud Pavilion is a temporary structure located at the edge of Sai Van Lake. The tensegrity structure is constructed from bamboo rods, steel cables, and fabric panels, and enlivened by a computer-controlled light-and-sound show. By applying advanced digital design techniques to vernacular construction materials, the pavilion is intended as a link between Macau's historical building traditions and contemporary cityscape.

Professional
Motional Graphic Designer (Newpage Communications, 2013-2014)

new page communications

Work Description:
Story board for video filming, post production & VFX, Crew member, animation & motion graphic design

Professional
Architectural Assistant (HPA, 2016-2018)

28-32 Stanley Street, Central (Commercial Development)

Work Description:
Genral Building Plan amendment
Sign board design & study
Pavement design & study
Facade design option
Interior design option
Client consultant meeting

Redevelopment of Kwun Tong Staff Quarters, Tseung Kwan O Road, Kwoloon

Work Description:
DDA Drawing amendment
Project Quality & Design Vetting Committee Presentation
User Related Design Meeting Presentation
Green Building Award Presentation
Beam Plus Presentation
Entrance Foyer Staircase Design

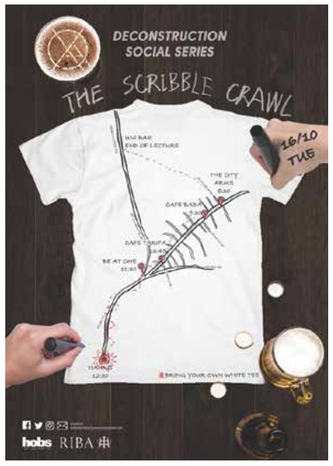
Entrance Foyer design options

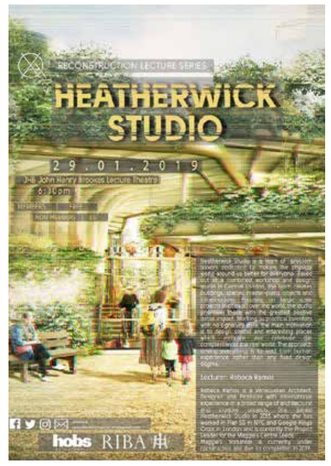
Facade design option of 28-32 Stanley Street

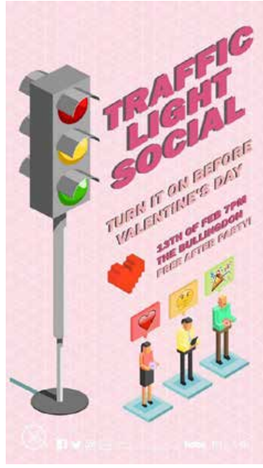
New Manila Bay City of Pearl

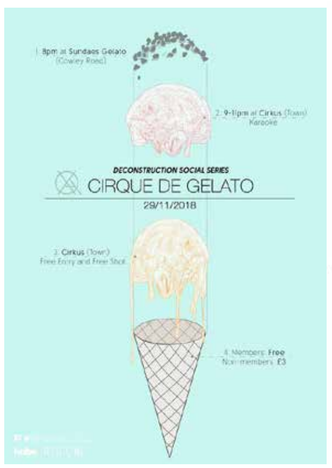
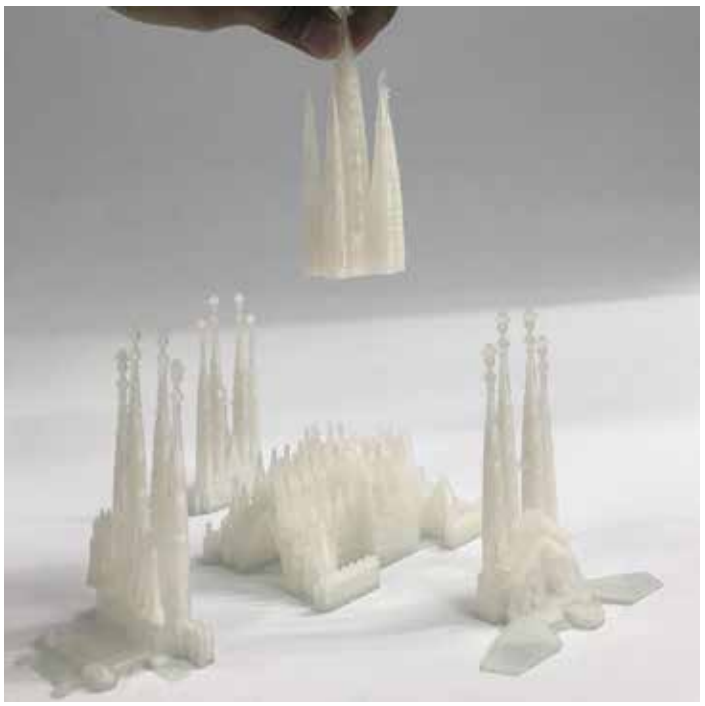
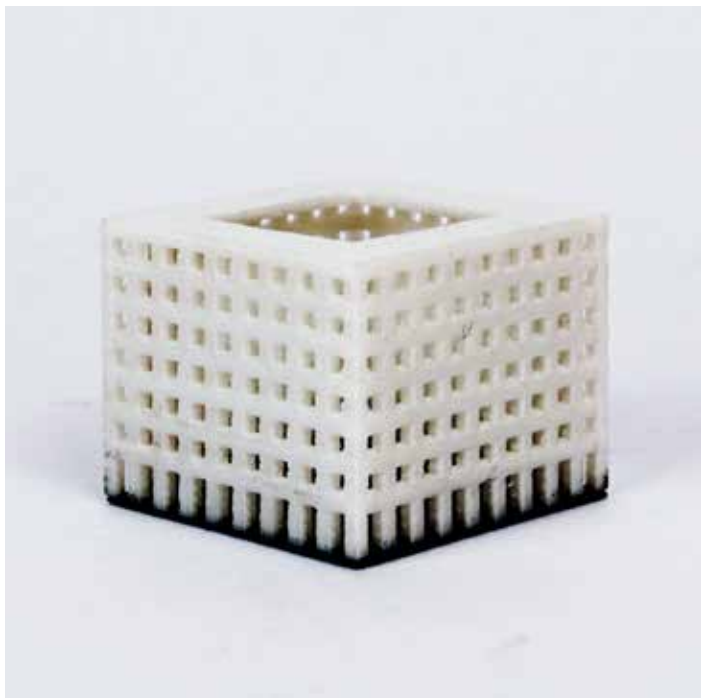
Work Description:
Masterplanning option
Genral Building Plan amendment

Oxford Architecture Society (OxArch)
Graphic Design (2018-2019)









3D Printing