

PALIN SINGHASIRITHUM  
for **A49** application / selected work, 2016 - 2023

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# PALIN SINGHASIRITHUM (PUN)

Bachelor in Desing and Architecture

## SUMMARY

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Architecture for me isn't just build a building but what important is how we design the void and space to cope with the actions /activities of the user but surely the design also need to be able to adapt to the style of each person who own the space

I quite passionate on how would a space inside the simple box could change through the design

## CONTACT

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**instagram** punpalin  
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Suksavat Road Bangmod  
Thungkru Bangkok 10140

## EDUCATION

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2016 - 2020 Chulalongkorn University  
Bachelor of Science, International Program  
in Design and Architecture(INDA)

2010 - 2016 Assumption College  
Degree of Computer, 2010-2013  
Degree of Science, 2013-2016

## SOFTWARE

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### Adobe Creative Suit

Adobe Photoshop  
Adobe Illustrator  
Adobe Indesign  
Adobe After Effect

### Mcneel

Rhinoceros  
V-ray  
Grasshopper  
Enscape

### Arduino IDE

### Microsoft Office

### AutoCAD

## OTHER SKILLS

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3D Print  
CNC  
Laser Cut  
Model Construction  
Hand Sketching

## WORKING EXPERIENCE

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### internship at PHTAA

working with design team to develop  
"Found project" a wedding venues.  
Jan 2020 - April 2020

### Chuichaek at Silom 19

renovate bar and restaurant  
Sep 2020 - Nov 2020

### FATTSTUDIO

Junior Architect  
Mar 2021 - Jun 2022  
FEB 2023 - MAY 2023 (short term hiring)

## COMMUNITY DESIGN EXPERIENCE

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### INDA Lab at Sam Yan

design and construction team

### Pylonesque

design and construction team

## PUBLICATION

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### INDA Lab at Sam Yan

INDA Year Book 2017-2018

### Pylonesque

INDA Year Book 2018-2019

### HOCHSCUHH&DONAVAN

INDA Year Book 2018-2019

## INTERESTED IN

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Geometry  
Architecture  
Aesthetic along with function  
Planting - cactus / philodendron  
Lower and Higher Dimension



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### BUSINESS

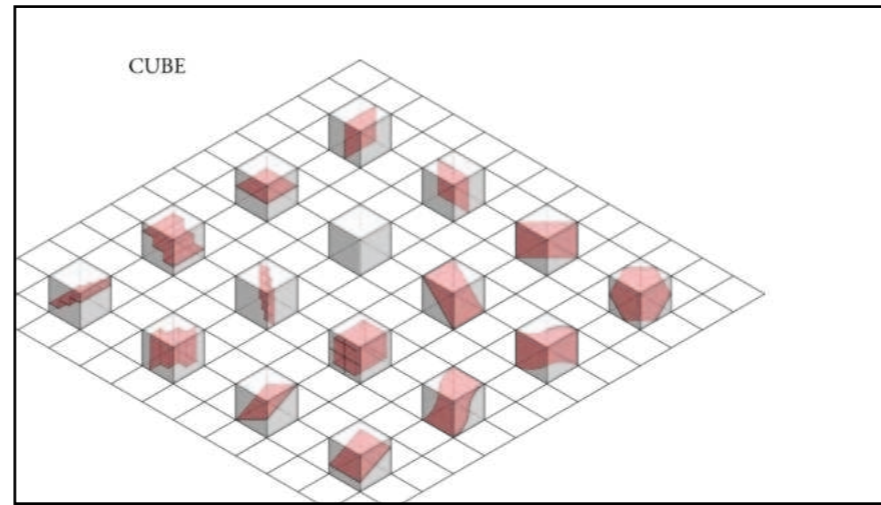
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## CONSUMING GEO : SECTION

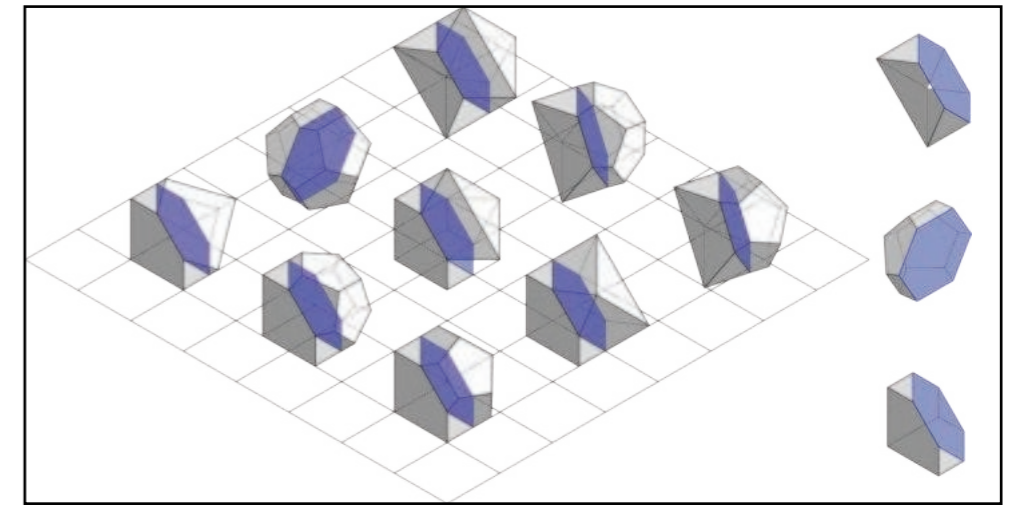
the use of section in architecture / variety of section result

INSTRUCTOR: Patrick Donbeck

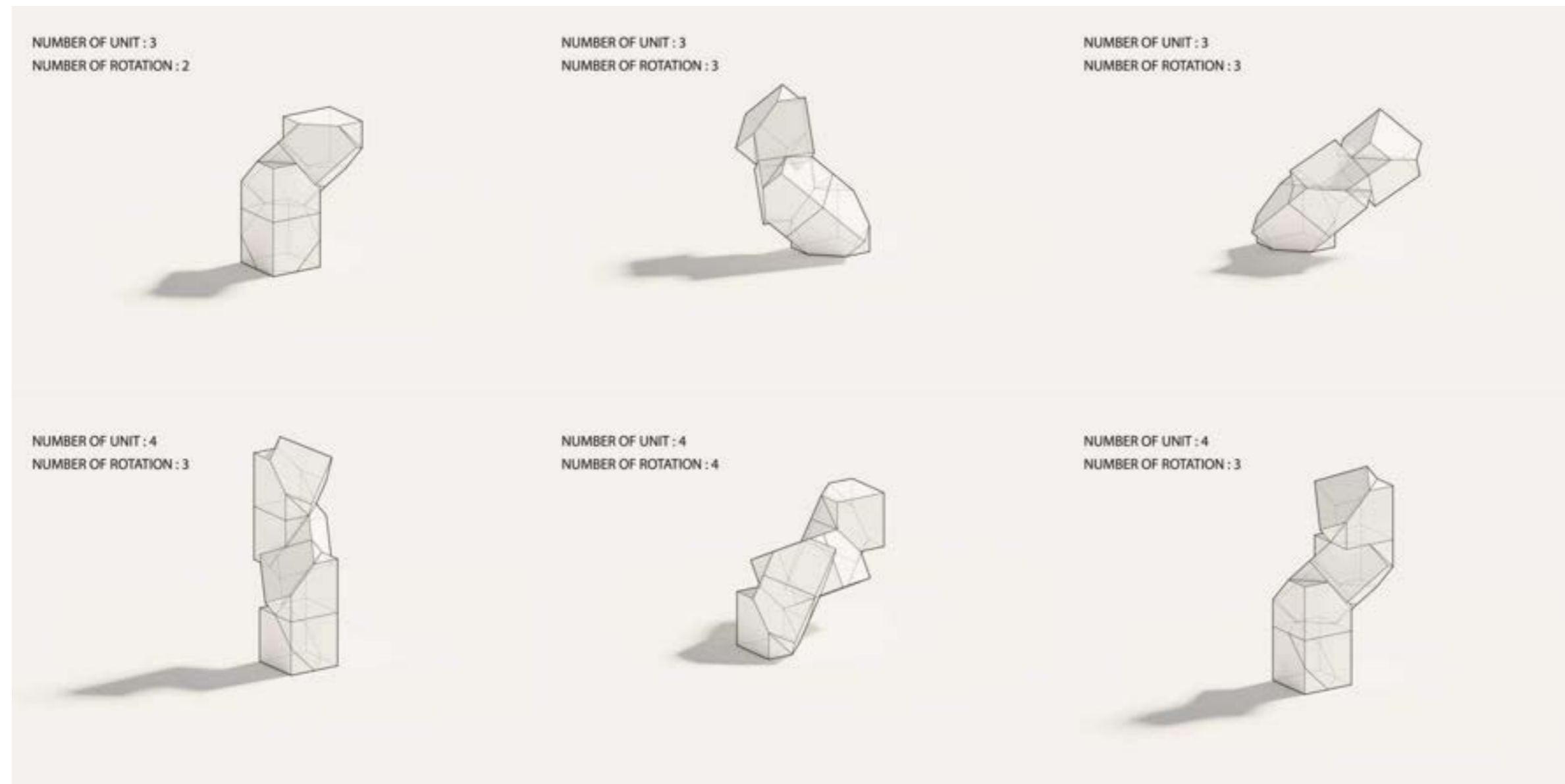
This study focuses on sections as an analytical and productive operation. In science and geometry, cross section is the intersection of a solid in three dimensional space with the plane. With this understanding, section can be used to extract the 2dimensional drawing from 3dimension solid,so we can say that section is about the process of lowering or increasing the dimension of things. To be clear, this project is mainly study on the relationship between the lower and higher dimension of the geometry since the section is about lower or higher the dimension.



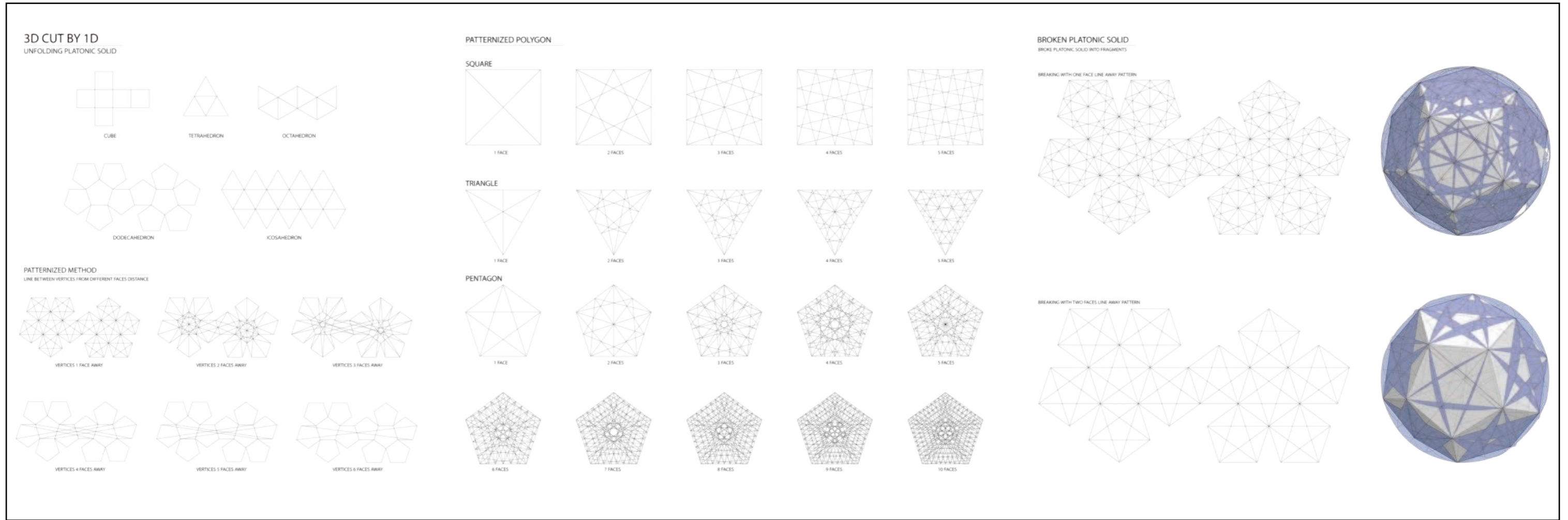
a simple cut experiment on a set of cube



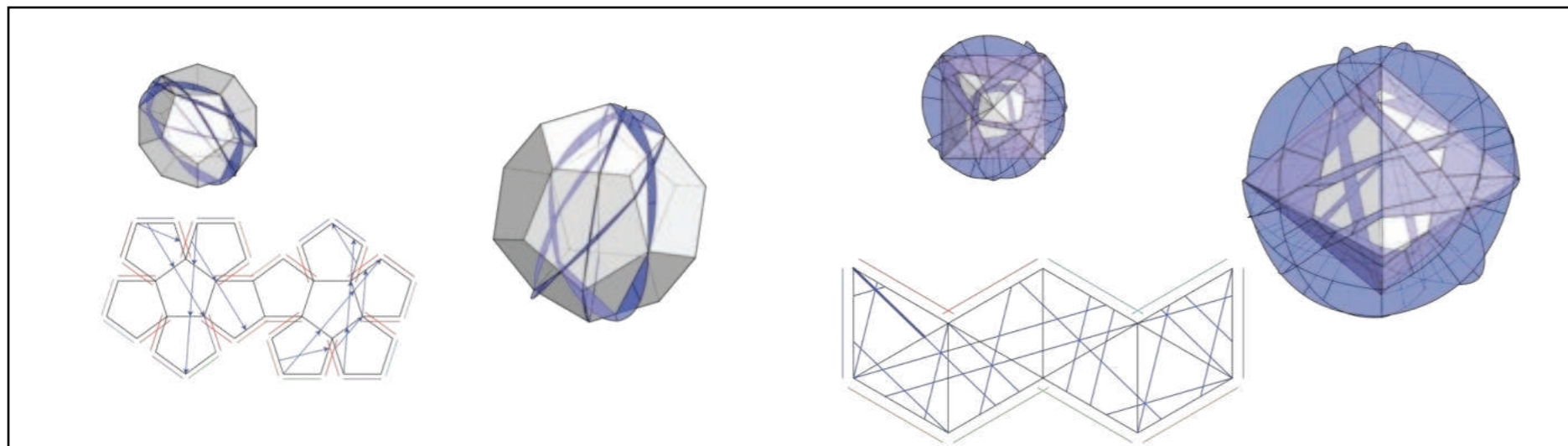
when we cut a cube, octahedron, dodecahedron in a specific spot in to half of the original volumn, the surface outcome will be equal Hexagon this diagrams show the attaching of half cube, octahedron and dodecahedron



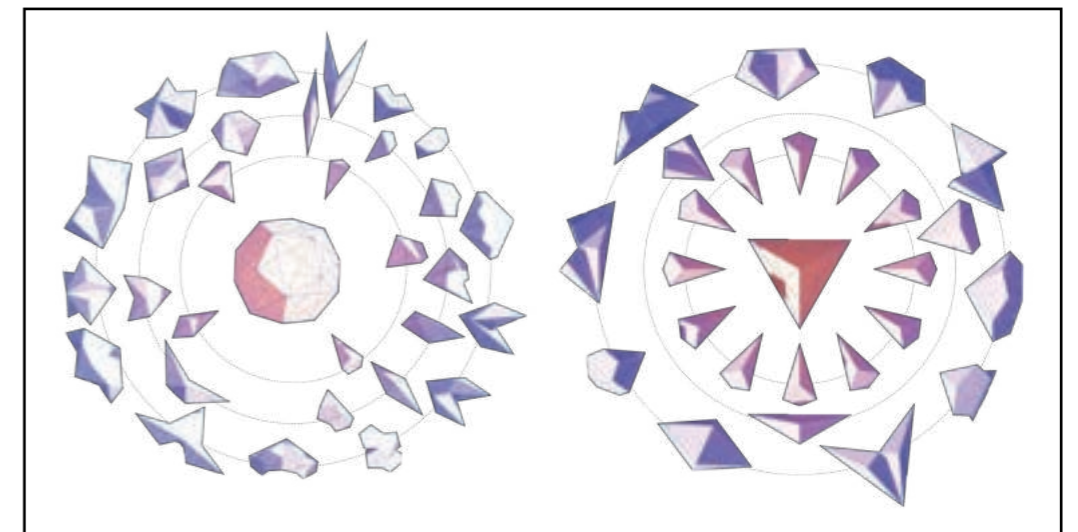
the section cut showed more variety in the arrangment of a simple cube which could allow the alternative method of rotation to add more design.



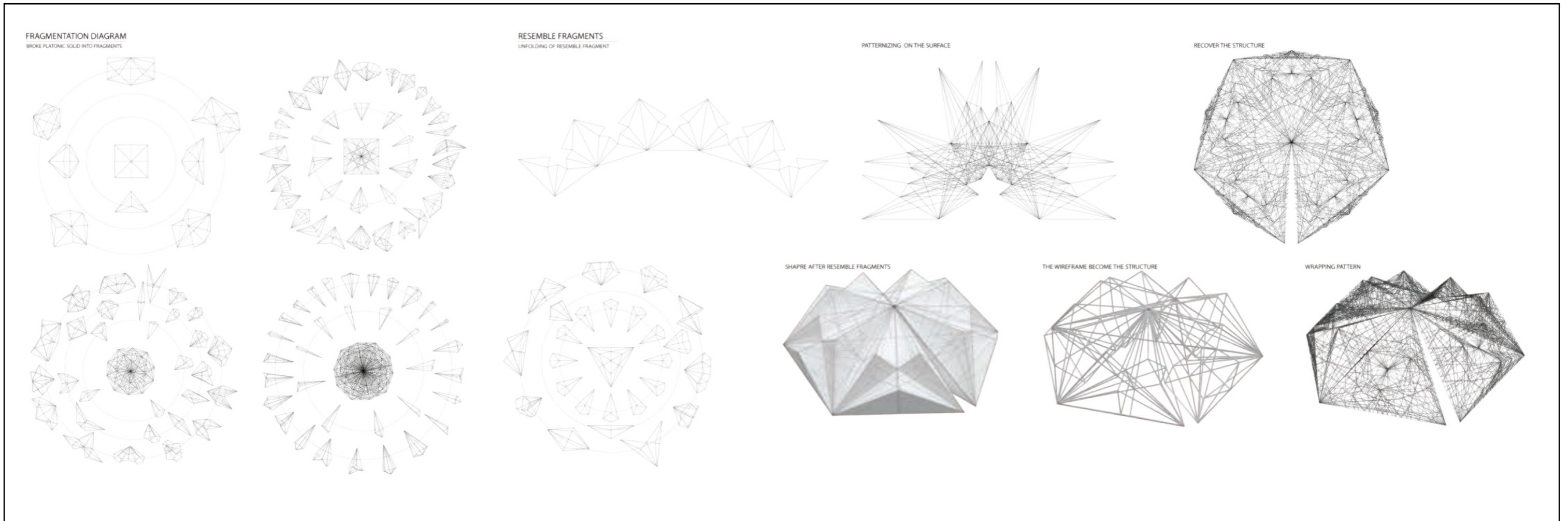
In the diagram above we try use "line" which is a unit of the first dimension to cut an object from the third dimension to do that we need to unfolding the polygon to lower their dimension then the we cut it with line from specific corners of the unfolding polygon. After that we re-wrapping the surface of surface into 3D shape again then cut it into pieces.



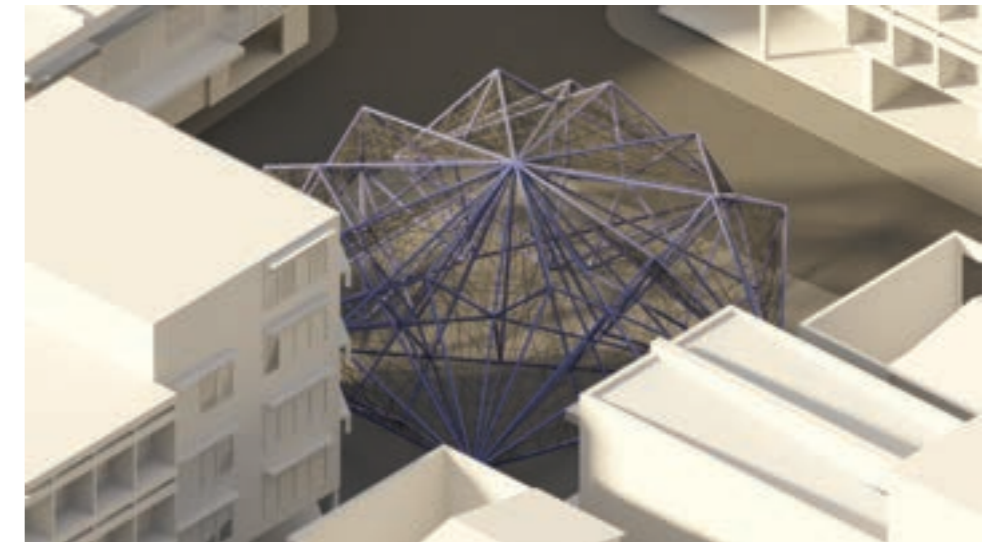
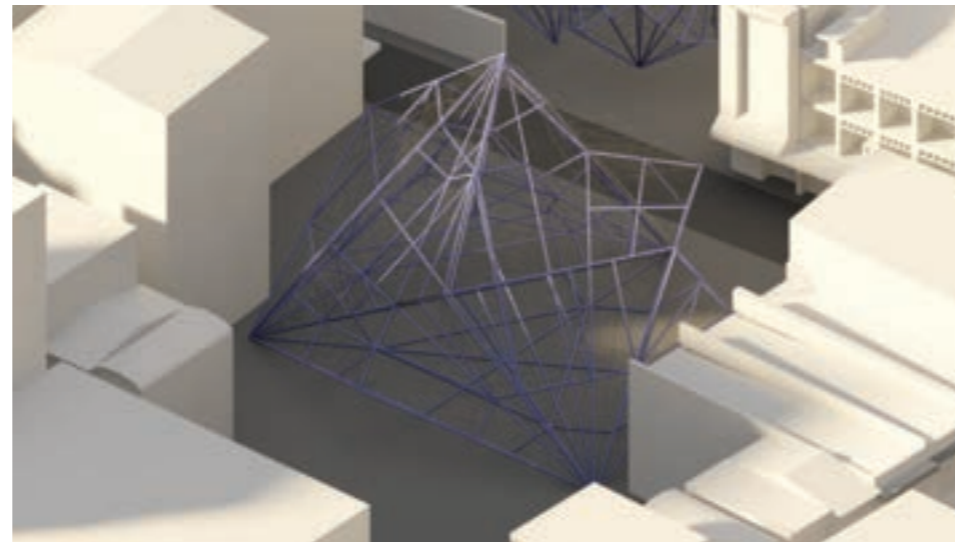
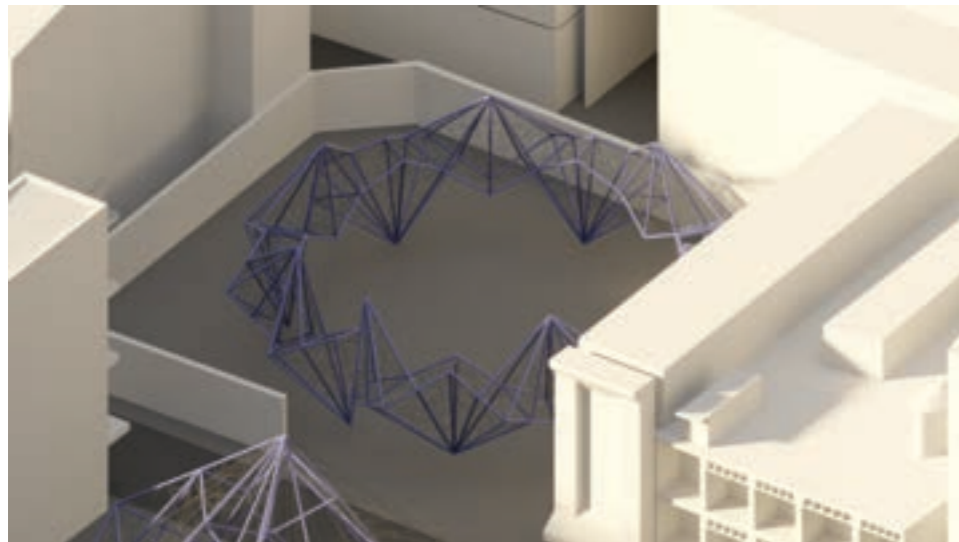
this diagram shows how the line travel and wrapped around on the surfaces after the surfaces reboxing again into 3D polygon shape

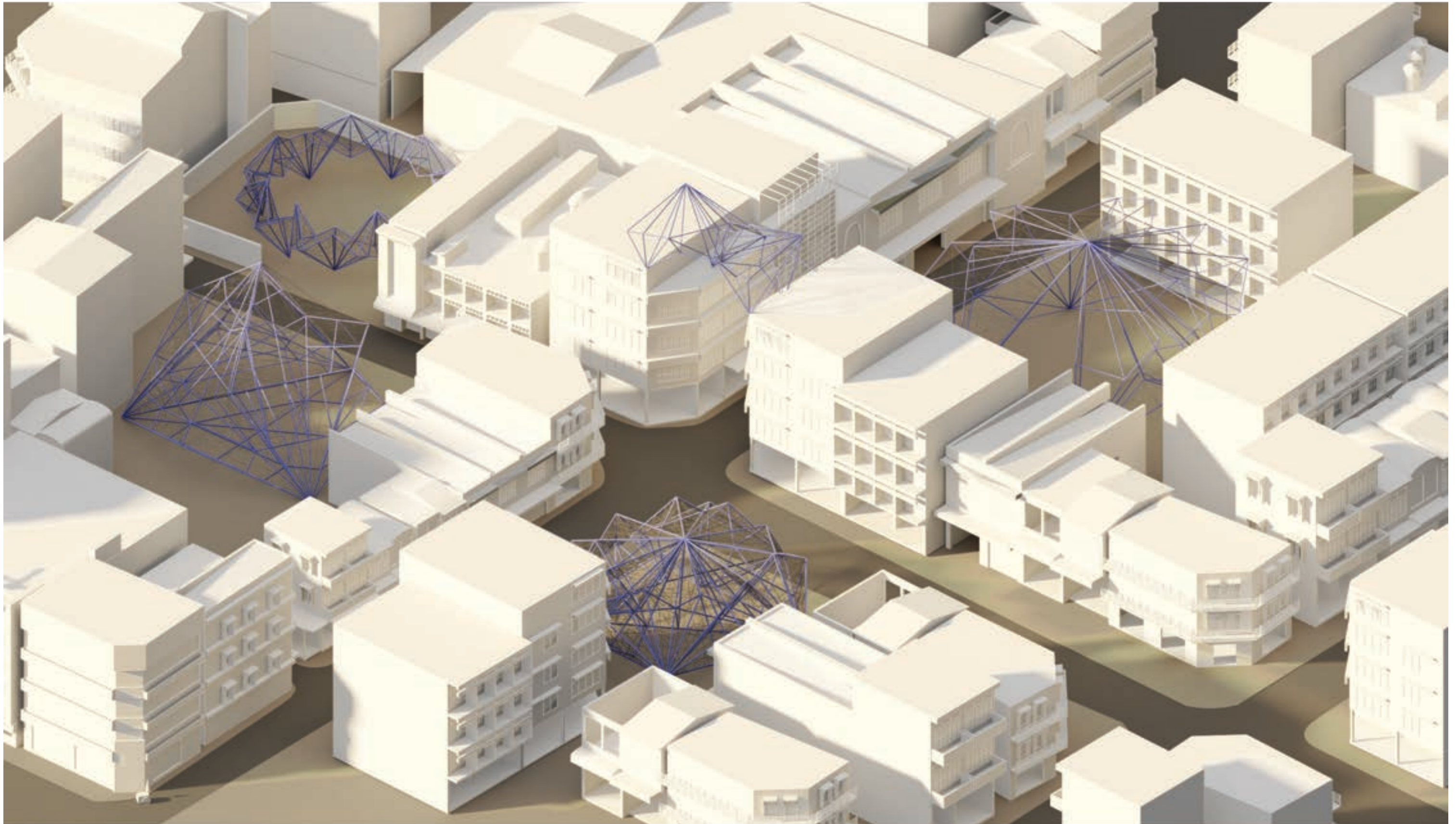


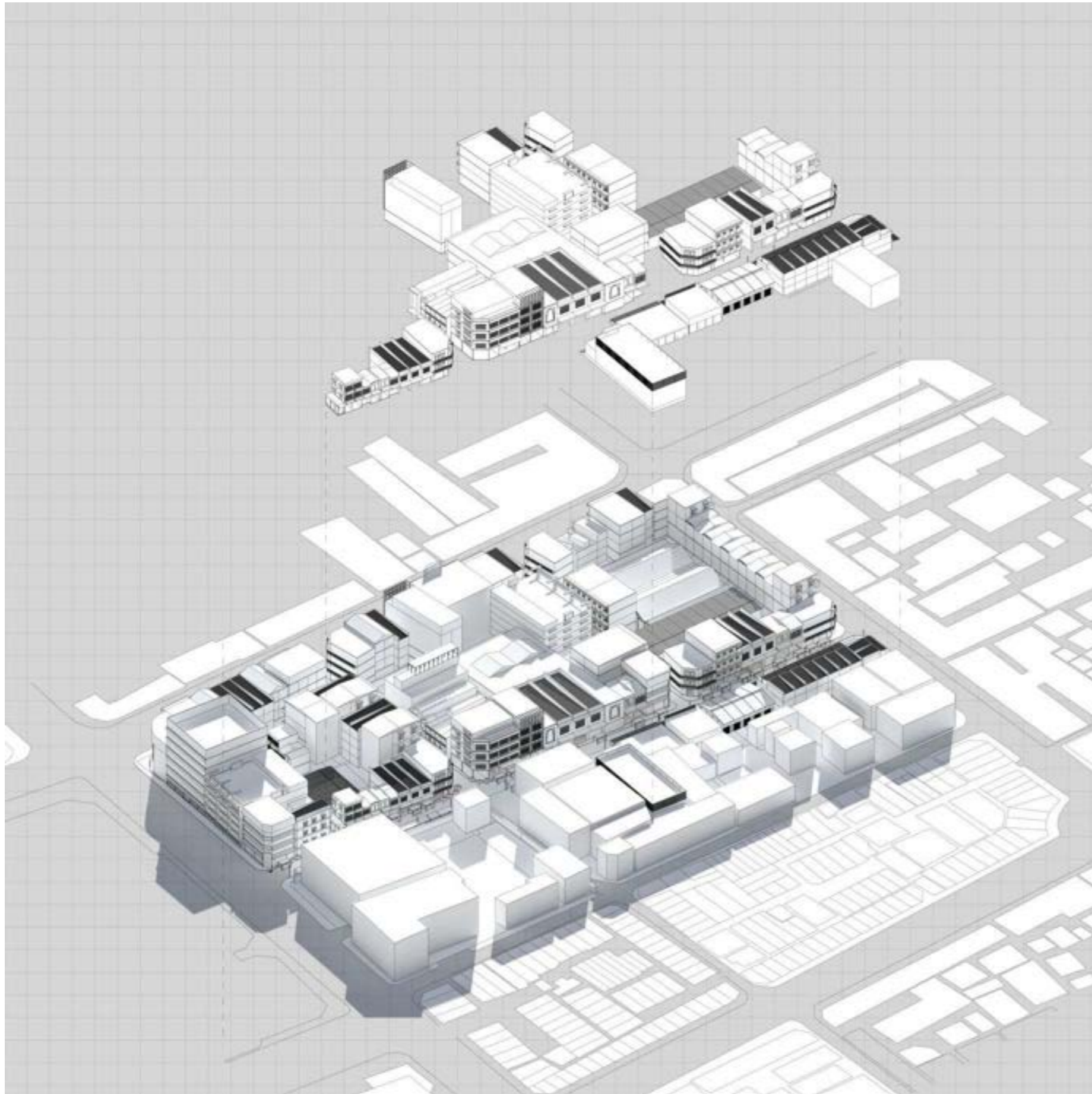
cutting 3d polygon box from its center point to the line on the surface making the 3D box break into pieces



As you can see, the pieces of the break down polygon can resemble again into a new shape which allow us to find more alternative way of output of the final design





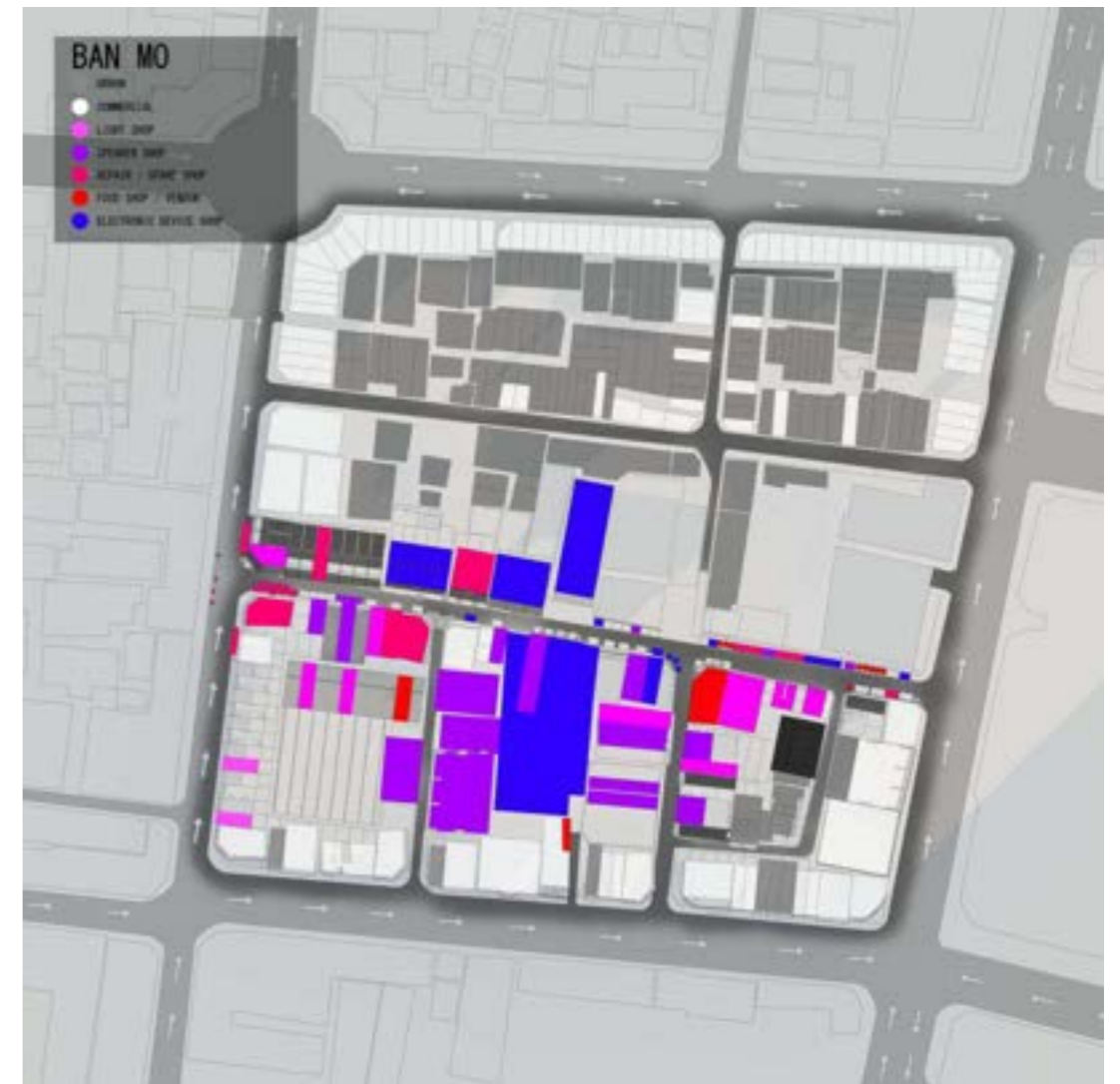


futuristic shadowing infrastructure

**INSTRUCTOR: Patrick Donbeck**

Ban Mo, the biggest electronic market in Thailand. Ban Mo's commercial area is mainly located in Thip Wari street near The Old Siam plaza. This street consists of speaker store, light store, electronic repair/spare store, food store/vendor and electronic device store

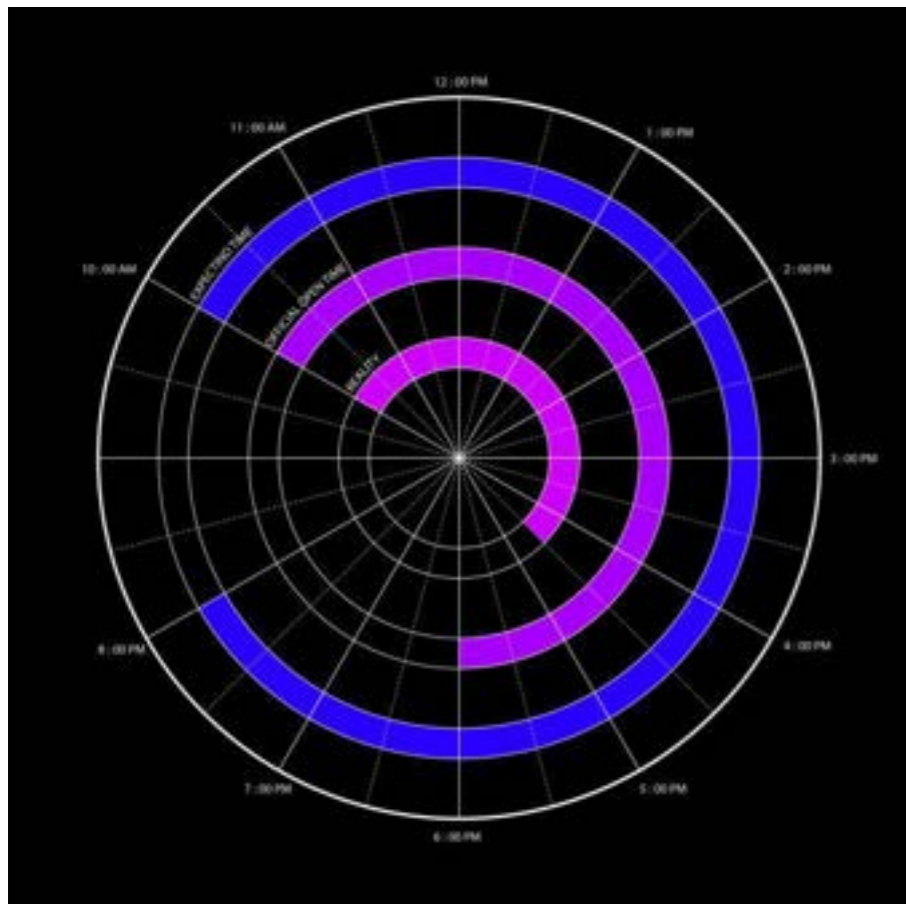
By the dense of electrical and food store, the following problem in the street is the pollution created from both repairing store and food store. repairing circuit requires soldering the lead to connecting the wires by this process the poisonous smoke will spread out which is not that dangerous. But imagine the soldering occur in many shop at the same times and every day, the poison will cumulatively increased.



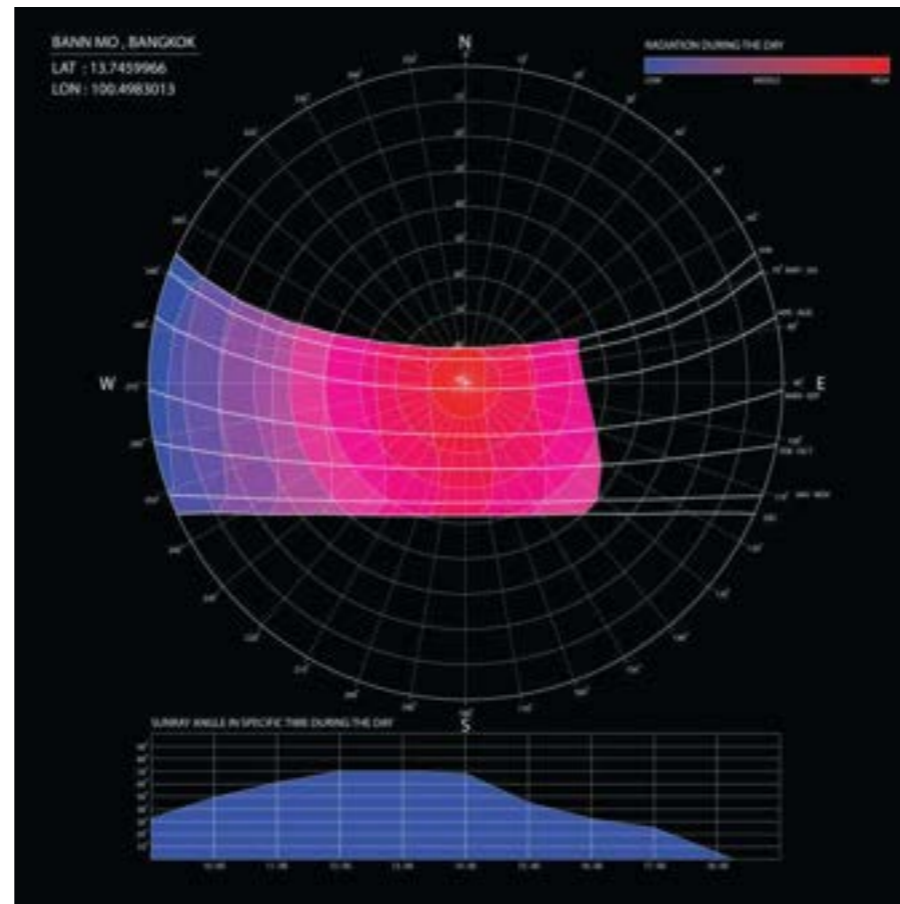




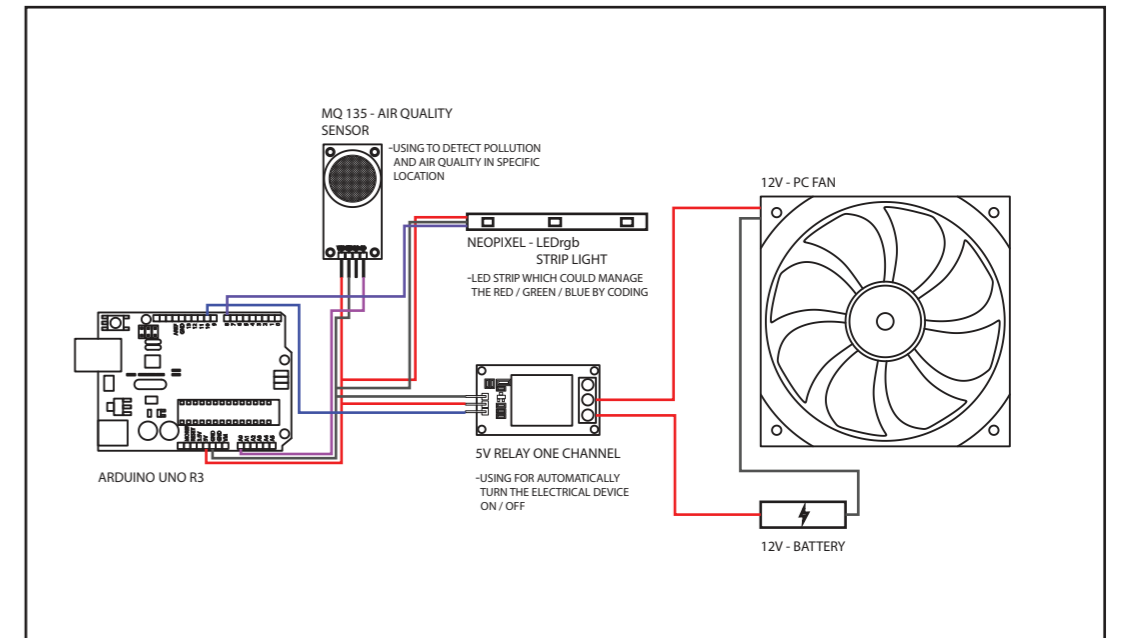
I make a pollution sensor device and calculate along the street and finding that the place where the food store and repairing store are locating having more pollution than most of the street area



from site visiting, I also see another problem. The store in this street usually close their shop before the actual time they want to close due to the lack of customer inside the street.



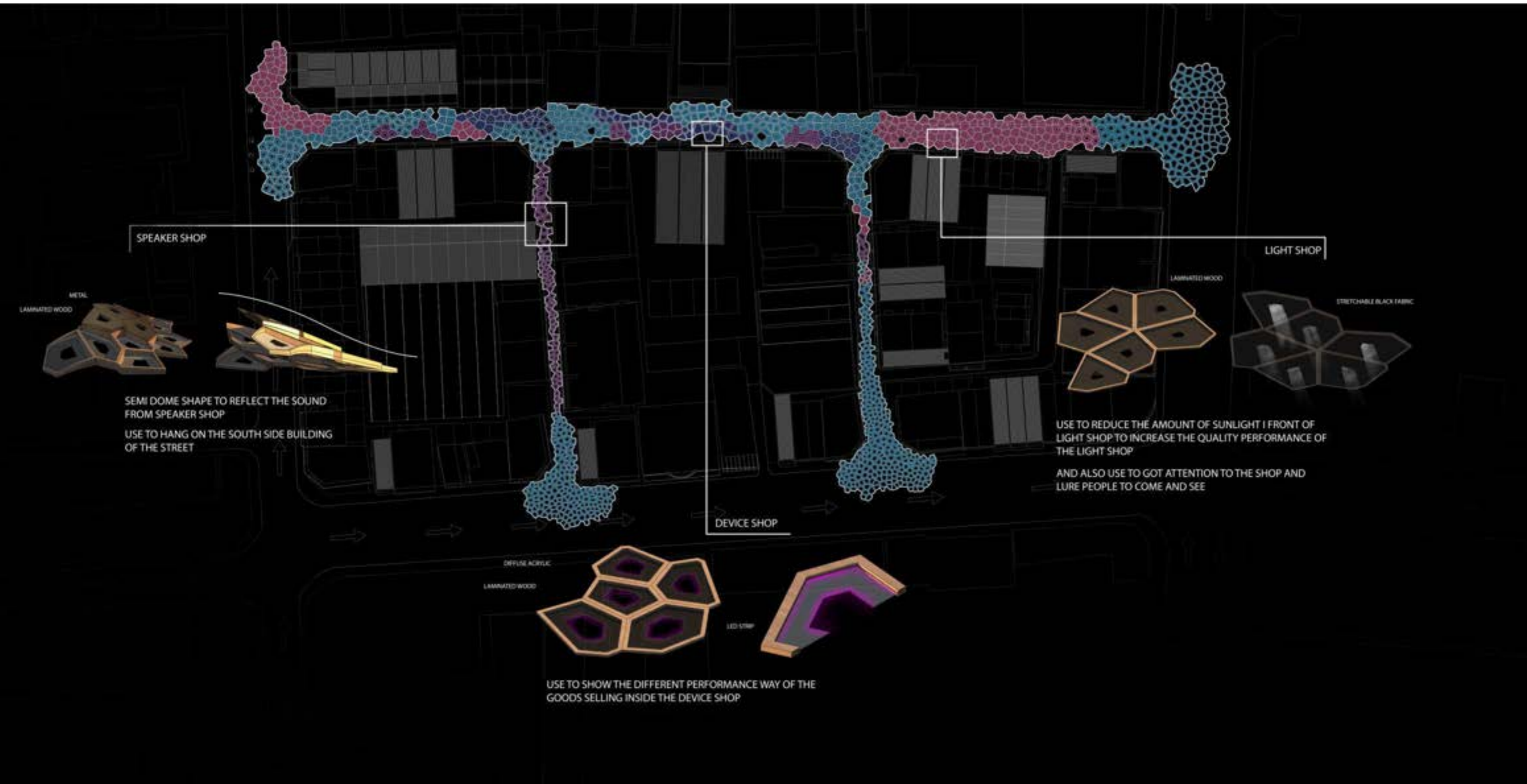
the main factor of this problem is caused from the lack of shadow inside the street and the high temperature across the day



circuit system used to detect the pollution inside the Thip Wari street

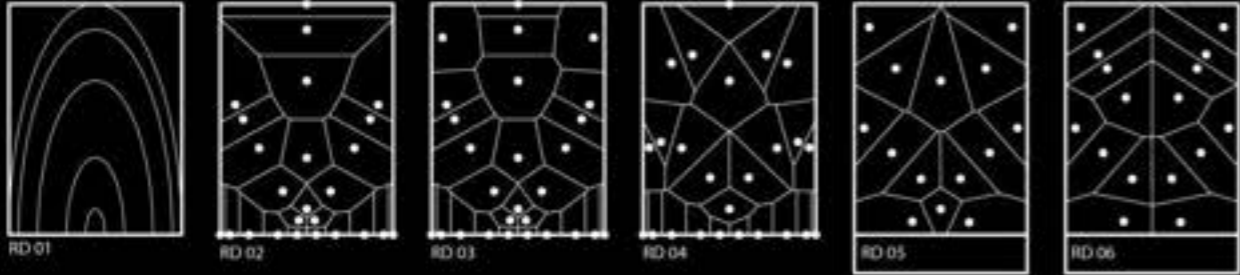
## Multi function canopy : Ban Mo

From all that matter, I decided to design a landmark that could also solve all the problem in this street. The Canopy the could sucked the pollution out from the street and give shade and at the same time, could promote each type of the store beneath them

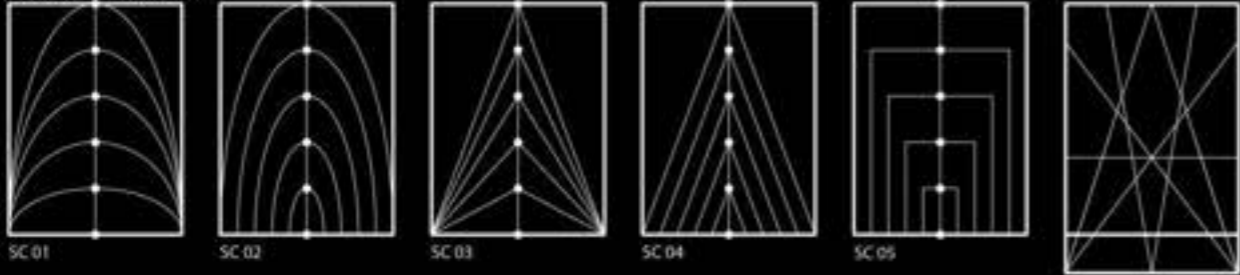


# SPEAKER SHOP

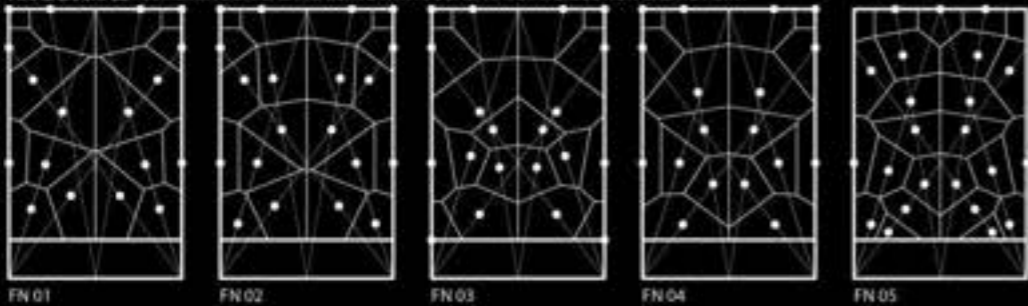
FORM WITH RANDOM SYMETRICAL INTERSECTION POINT



SPREADING / ECHO CURVE

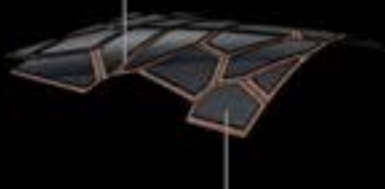


FINAL EXAMPLE : COMBINING SPREADING CURVE WITH SOUND WAVE INTERSECTION CREATE POINT

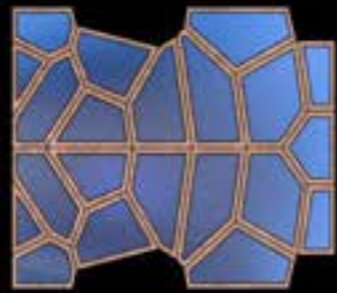


SOUND WAVE

POLYESTER ACOUSTIC FRAME

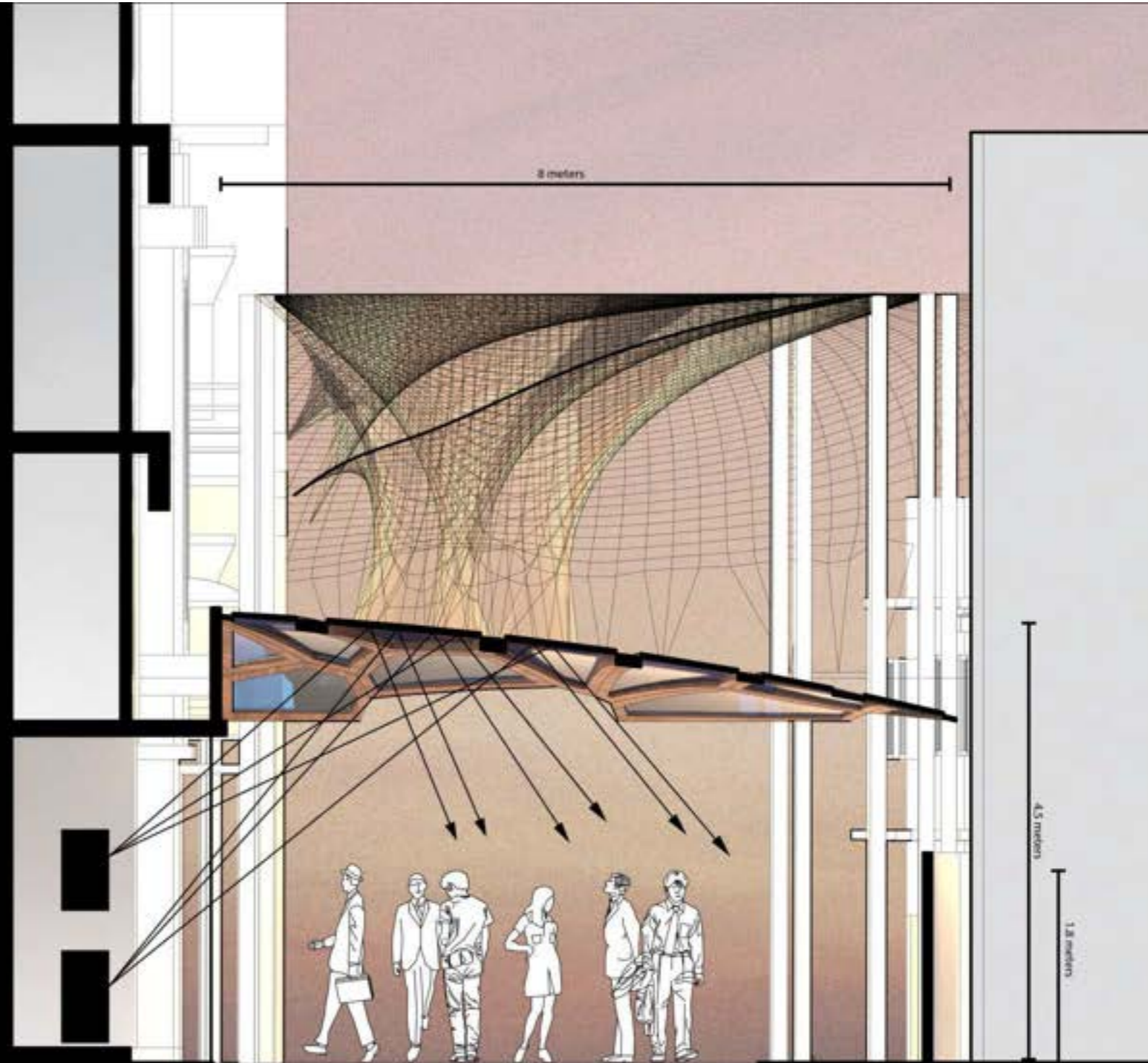


TRANSLUCENT SOUND REFLECTIVE ACRYLIC



7 meters

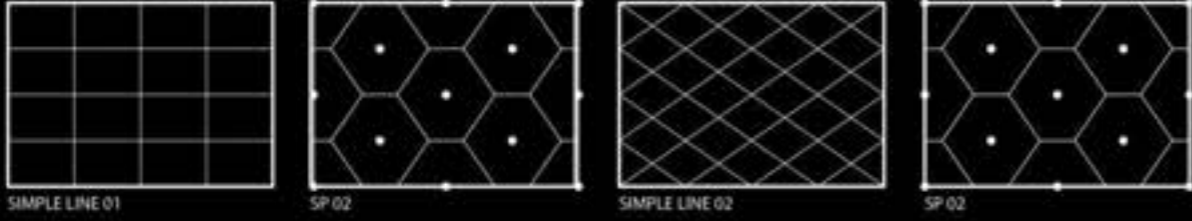
8 meters



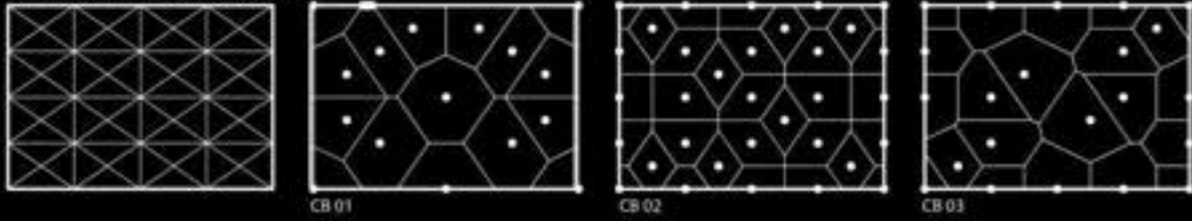
voronoi is the perfect method to distribute each shop from each others.  
 voronoi could be change its shape if we added some parameter to it, in this case,  
 I added the intersection between sound wave and echo curve.

# DEVICE SHOP

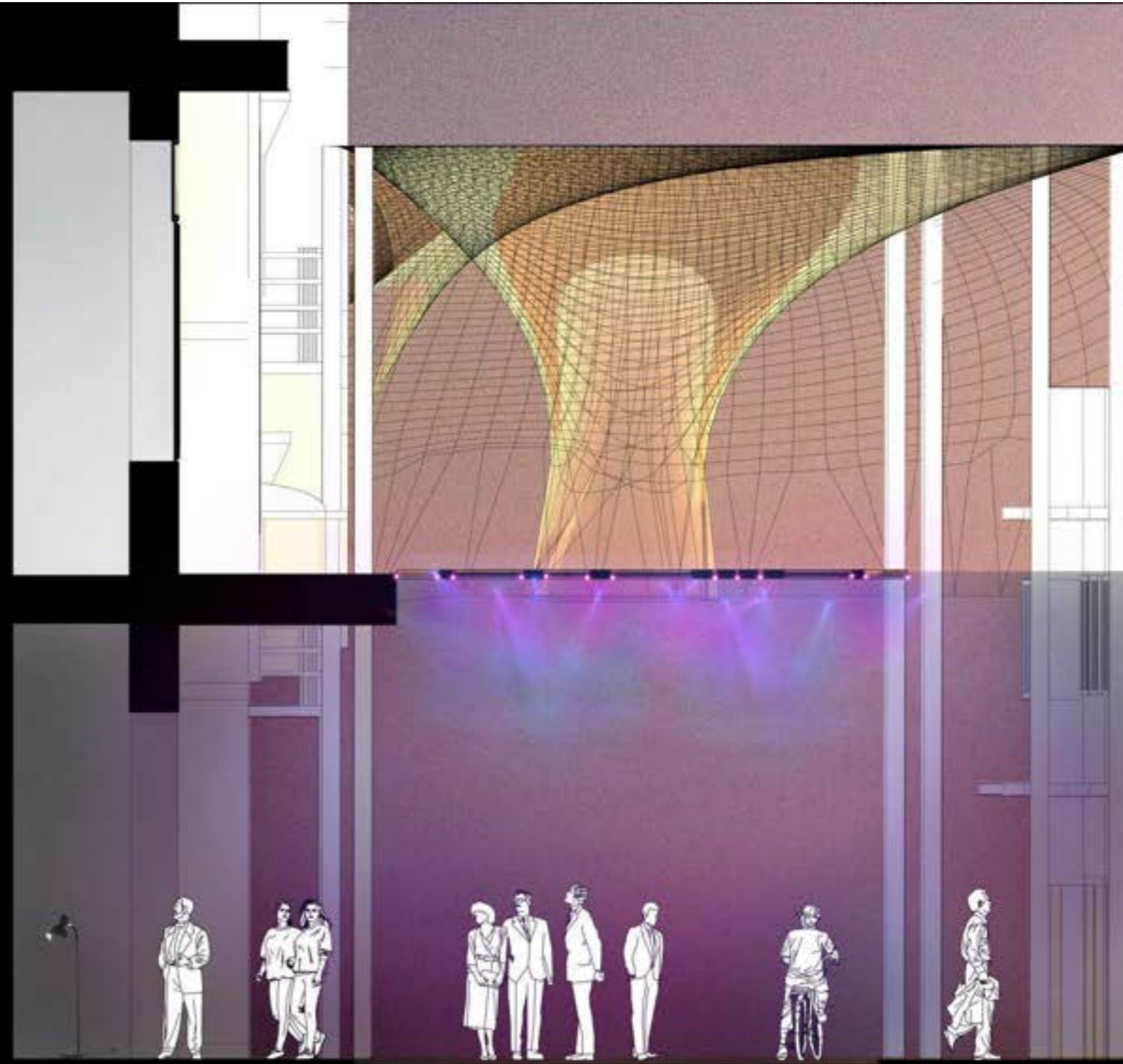
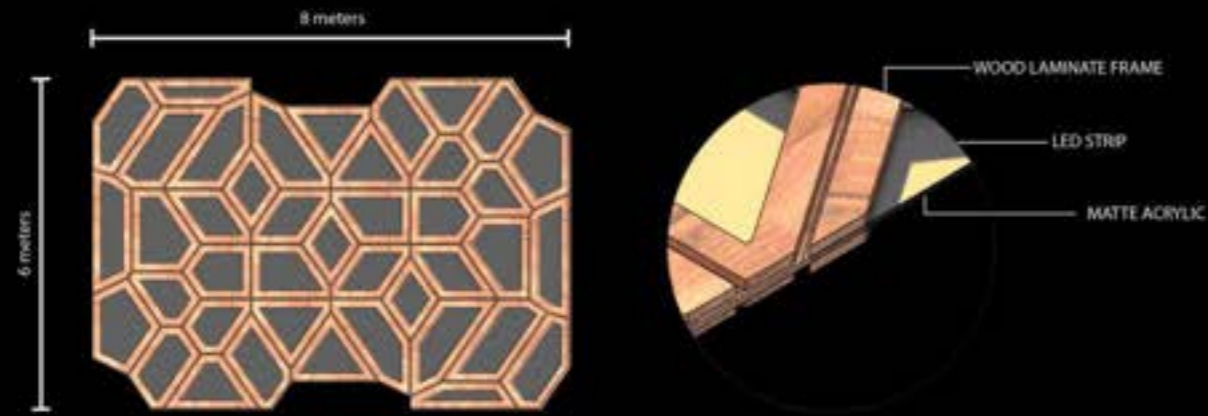
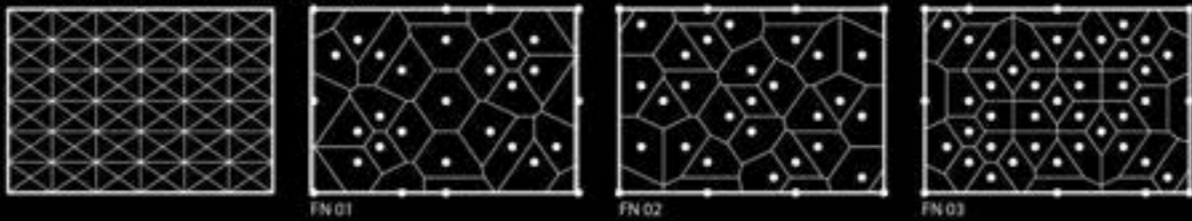
FORM FROM SIMPLE INTERSECIION LINE



FORM FROM 2 SIMPLE LINE CROSS OVER



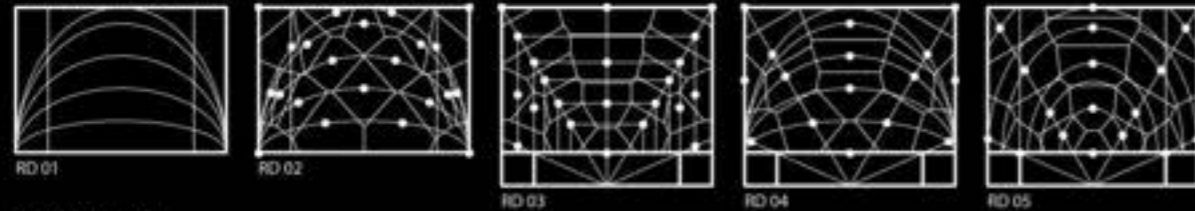
FORM FROM DENSER 2 SIMPLE LINE CROSS OVER



for electronic device shop I use the pattern of circuiting adding to voronoi system

# LIGHT SHOP

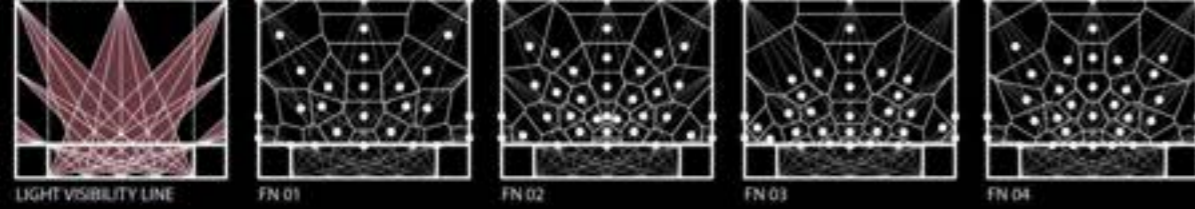
FORM WITH RANDOM SYMETRICAL INTERSECTION POINT



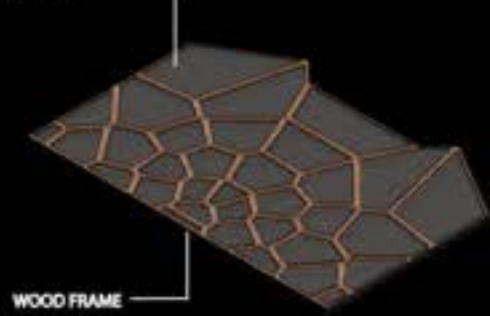
SPREADING CURVE



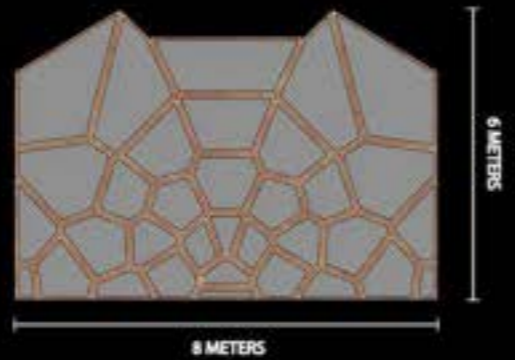
FINAL EXAMPLE : COMBINING SPREADING CURVE WITH LIGHT VISIBILITY LINE INTERSECTION CREATE POINT



BLACK FABRIC



WOOD FRAME



for light shop I try to use the intersection of light ray and preading curve to create the pattern on voronoi





## ENDOMICHOMES : DISCONNECTION

depict to the crack between the elite and slum society

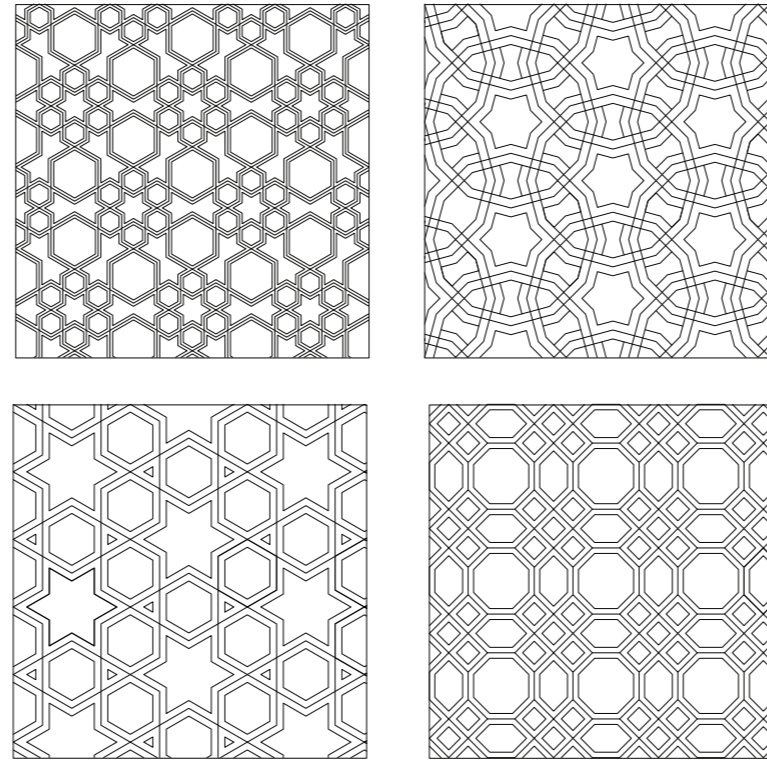
**INSTRUCTOR:** Sabrina Morreale

This project requires us to choose one vernacular architecture from the list and study about it and further develop the spectacular or idea of the choice we choose into the urban area we choose on the next process.

### Kashmir Vernacular Architecture - India

Kashmir vernacular architecture is located in Northern of India, between China and Pakistan, due to their location on the valley and near to the cross-over between two continental plates. Kashmiri vernacular architecture is constructed specifically to address natural disaster and extreme climate. They make use of the material around them in the most efficient way so that they could cope with everything that would happen. During the Earthquake as in this plate the modern house which look more stable and using concrete were destroyed and couldn't withstand to the vibration on the ground but the vernacular just having some little crack that could repair in no time. It's because the structure in the house itself break down the force from the earthquake equally along the wall.





Inspiring from Persian, they develop their house into highly decorated house with a lot of complex geometric pattern in most of the elements in the house for example their corridor and window are carefully crafted from wood indicate in complex pattern. Another example is their ceiling. The ceiling in the house is called Khatamband which come from Khatam, meaning "reaching to an end" and Bandh, meaning "close", so it's mean the polygons closed or stuck together with the help of wood bending that would made you feel very satisfy and feel warmth just looking at it.

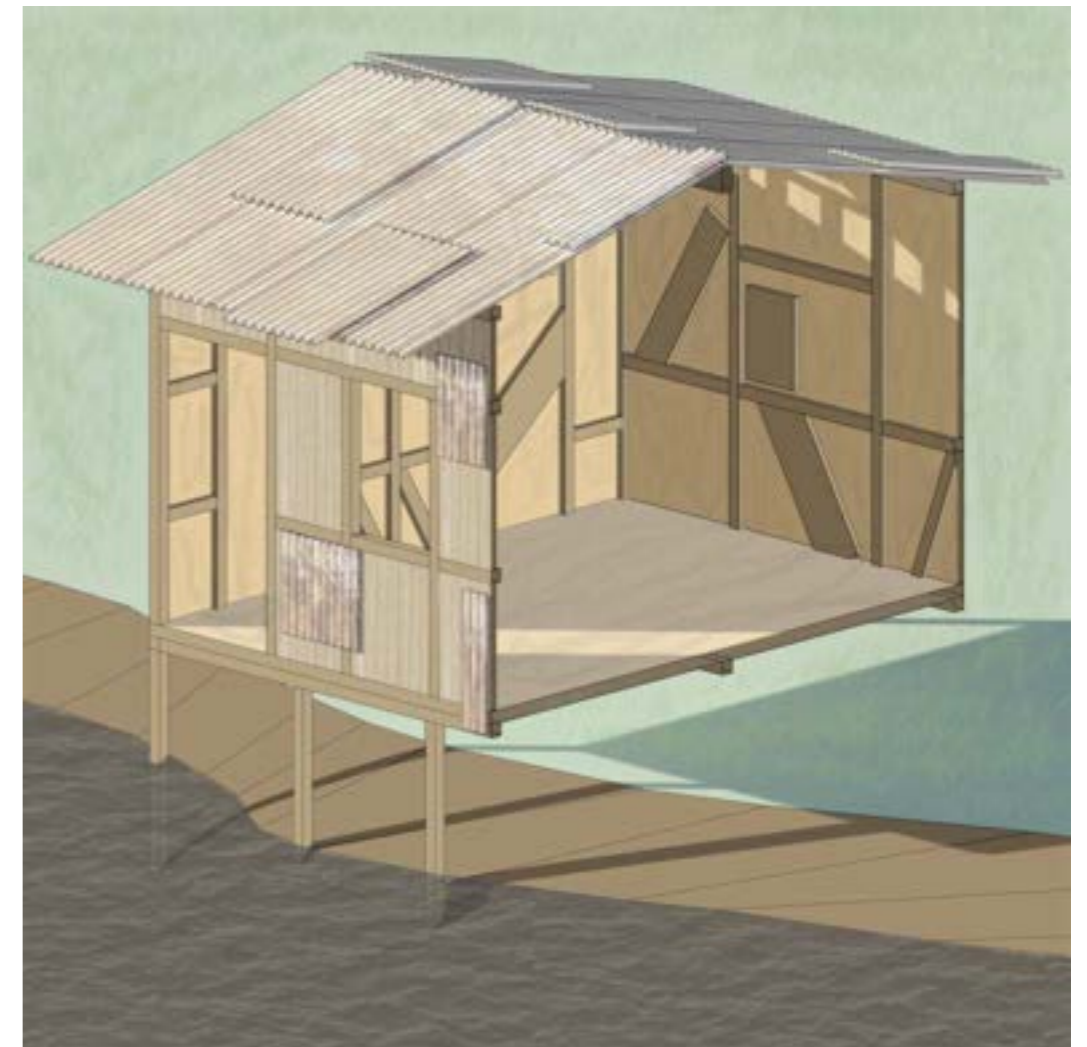
The idea of self constructed is very outstanding in Kashmir's ceiling they attached wood fragment piece by piece together to create the pattern on the ceiling. They used wood as the main material in all of their ornament.

A place in Thai which have the similar in many condition as our case study. For me, I think that Khlong Toei Slum having some similar aspect to my case study. The first reason is because they built their house near to the river so both of them having stilts under their house. And the material that they used is wood. Also, they constructed their own house as the ceiling in Kashmir.



<https://vimeo.com/293797728>

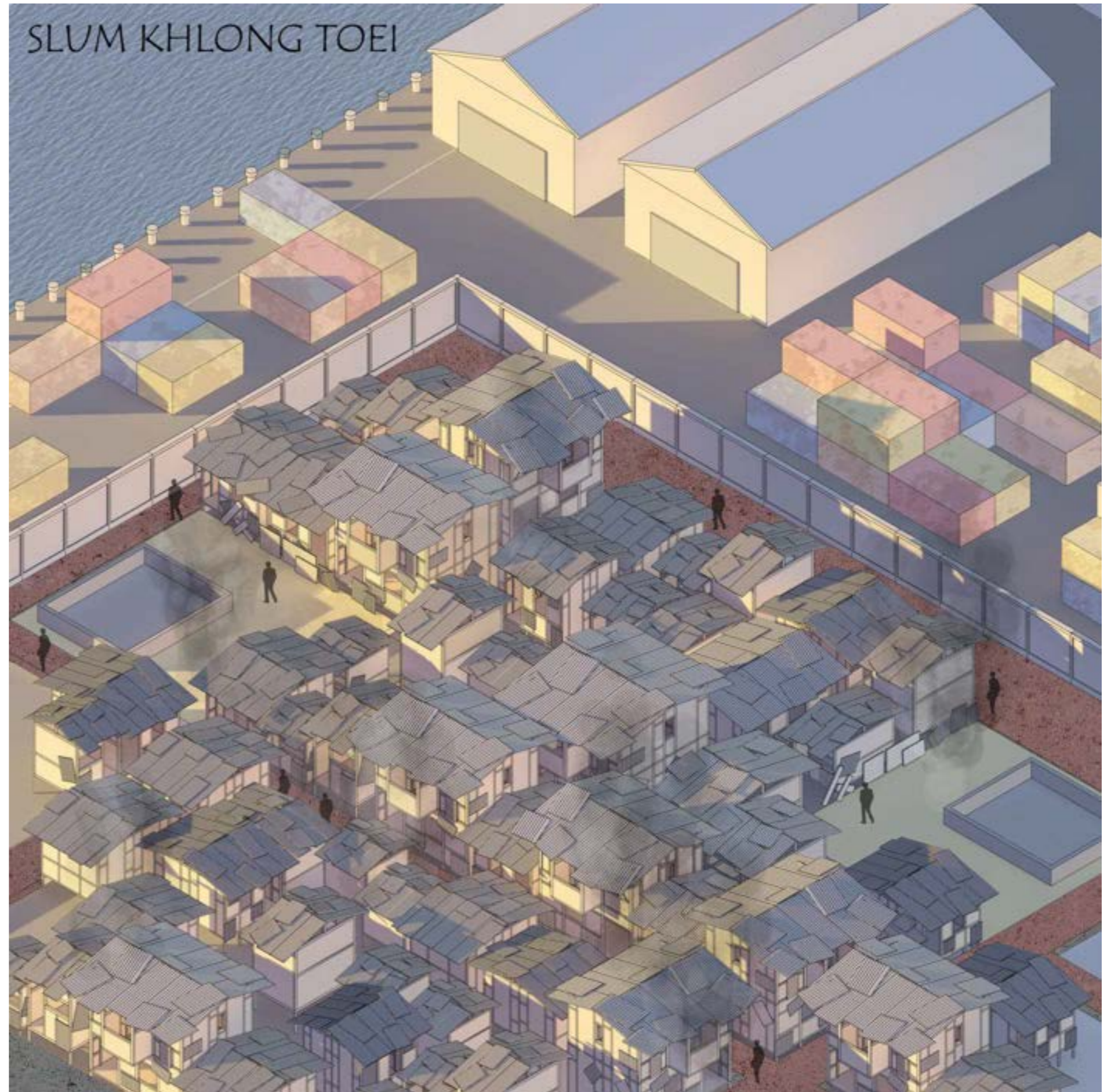
I create a video to demonstrate the installation I have done in Khlong Toei PLEASE click on the link to watch it





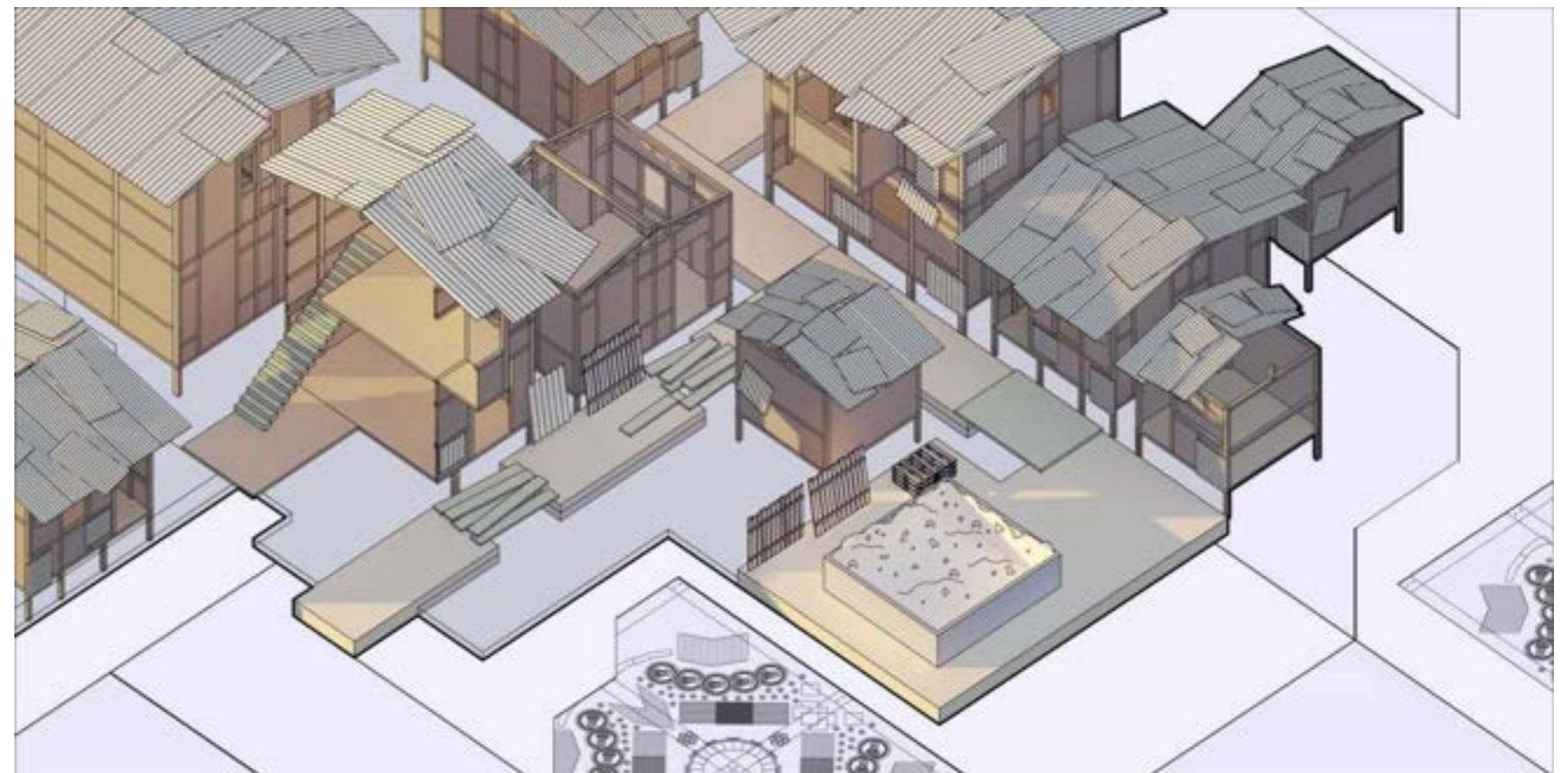
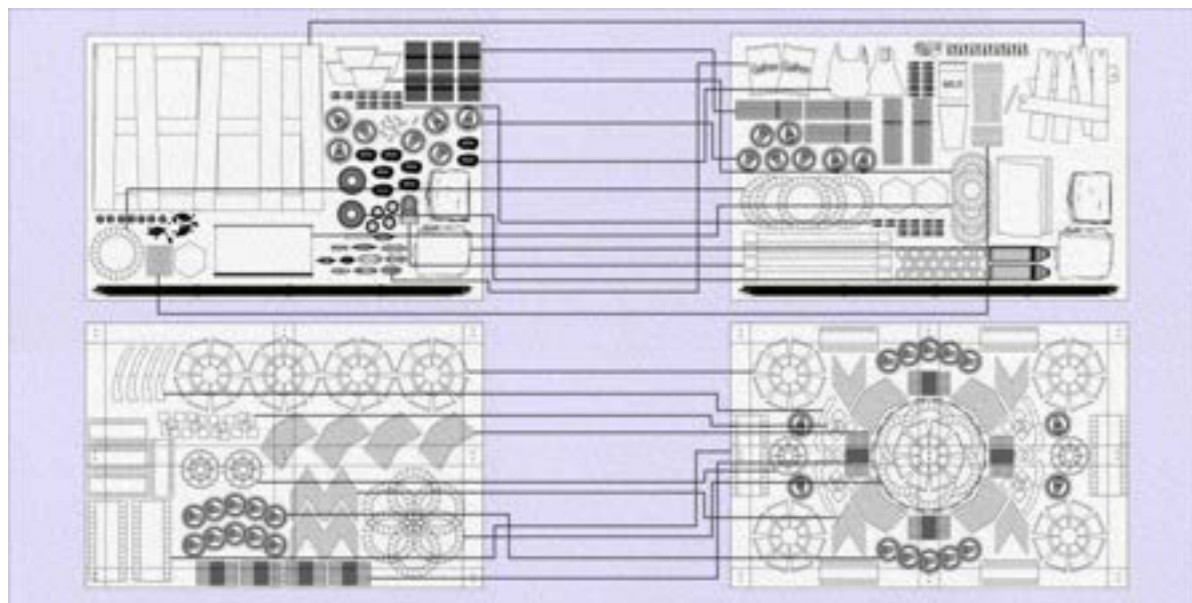


I'm focused on how to take advantage of the element inside the slum Khlong Toei since it have a lot of left over material there. I found out that most of the house have the water under its floor for fire preventing reason, so they must have the water connection between every house so that the water could come in and out that lead to the disconnection between two pavement and they have to use the timber to connect between two pavement, so that they could walk pass it.





So my design is about using the idea of self design and self construct. The method is to take out all the element along the pavement area. Making us see the condition under the walking part and clear the way.



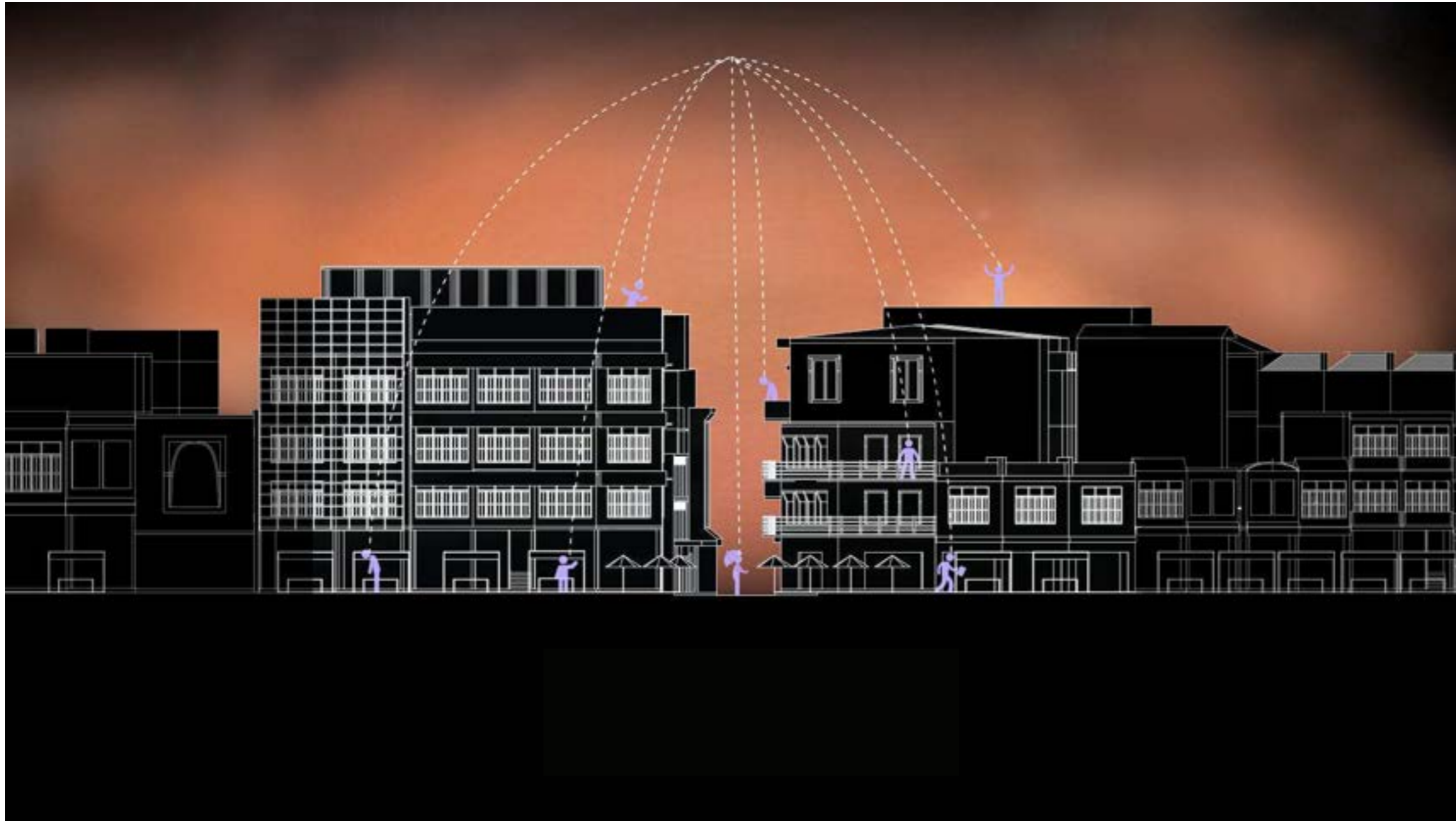
Here is the condition beneath all the material that left over inside the small walk way.  
 Then we use the left over material that could withstand to the rain and weight of people to build up a bridge that link them together and create their own pattern of the pavement.

## FRACTURE PEEL

seven sins building

**INSTRUCTOR:** Takanao Ando

Working at its best is what make us human, it fulfils our species essence. It allows us to live, be creative and flourish. But under modern capitalism, people who have nothing to sale but their own labour. They have to work under pressure and having a lot of burdens. Even when they have their own free time which should allow them a freedom for their life, they still have to be under morality circumstance which means they have no absolute freedom. If they can't live under control they will be judged as a Joker who is insane and being a bad guy. But if they survive from those things, they still have to live in the careless society where everyone care about their own feeling.



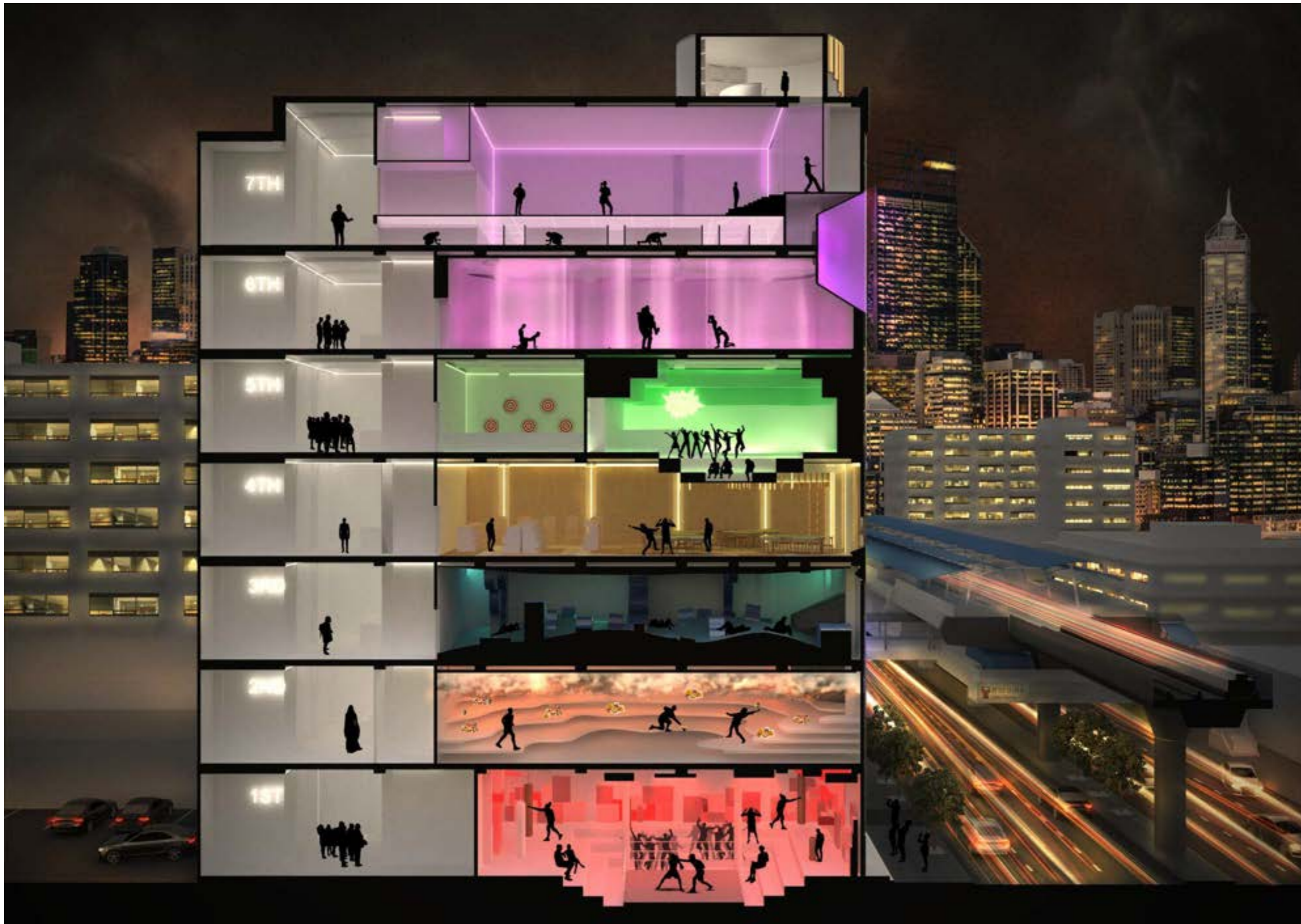
We, as a company who care about people feeling, wants to rebranding our company as a service company who using architecture to at least allow people to release themselves for a moment they using our services.

Our main target group is the people who working as an office worker which doing the pointless work, so our company want the building to be located at the center of stressing zone in Bangkok, Silom. We want us to be the oasis inside this area.

Fracture Peels is the building that will making you forget about the chaos from the outside. The idea of our building is coming from the 7 deadly sins that talking about humans desire under limitation, so this building consist of 7 floor and each floor will have their own specific program or you could say "sin".

The facade was designed to look very solid from the outside which refers to human try to act strong and be under morality but there will always be desire inside them that could break through their restrain in any times.





Floor list:

1st floor : Wrath sins

2nd floor : Gluttony sins

3rd floor : Sloth sins

4th floor : Greed sins

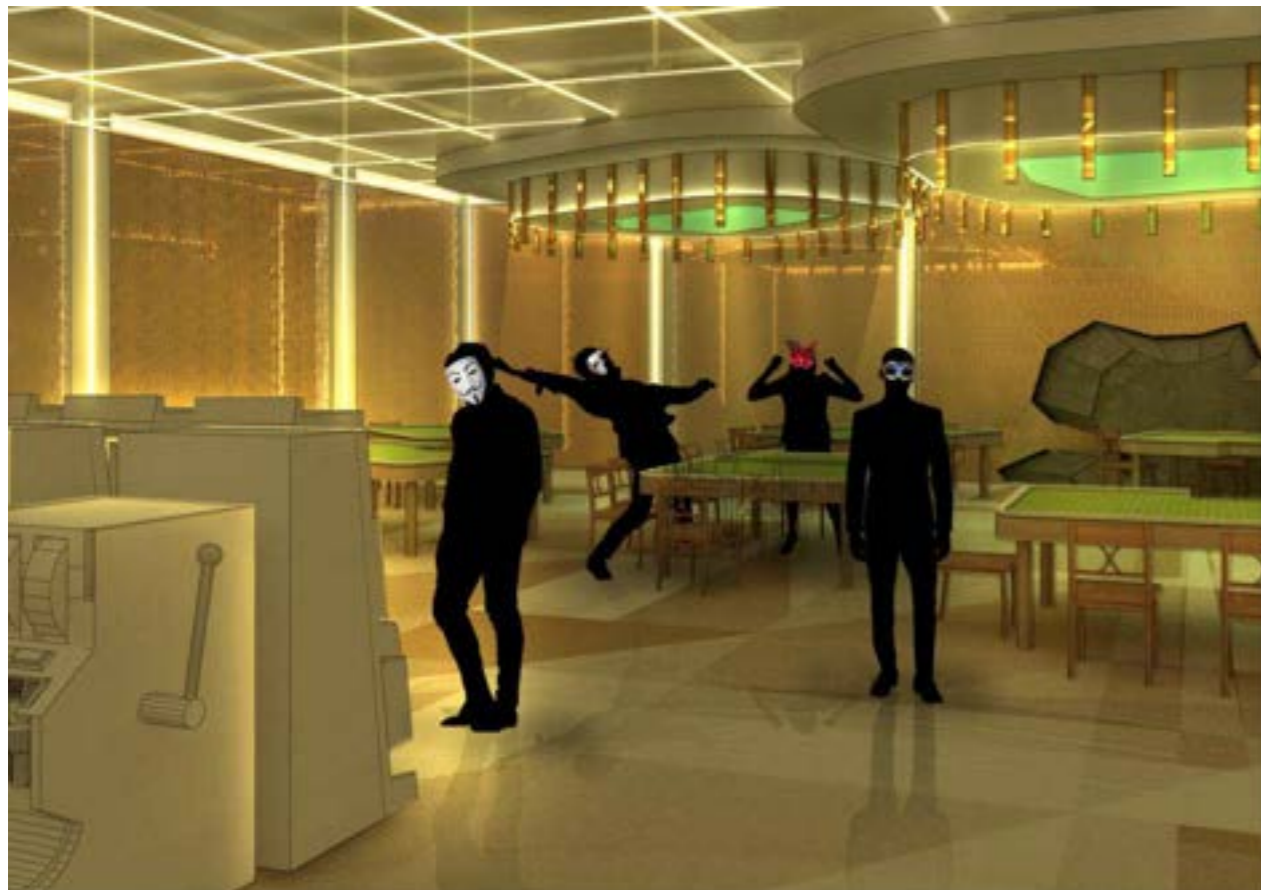
5th floor : Envy sins

6TH floor : Lust sins

7th floor : Pride Sins



As you could see, there will be sins activities happen inside this building each floor have its own activity related to the specific sin of the floor



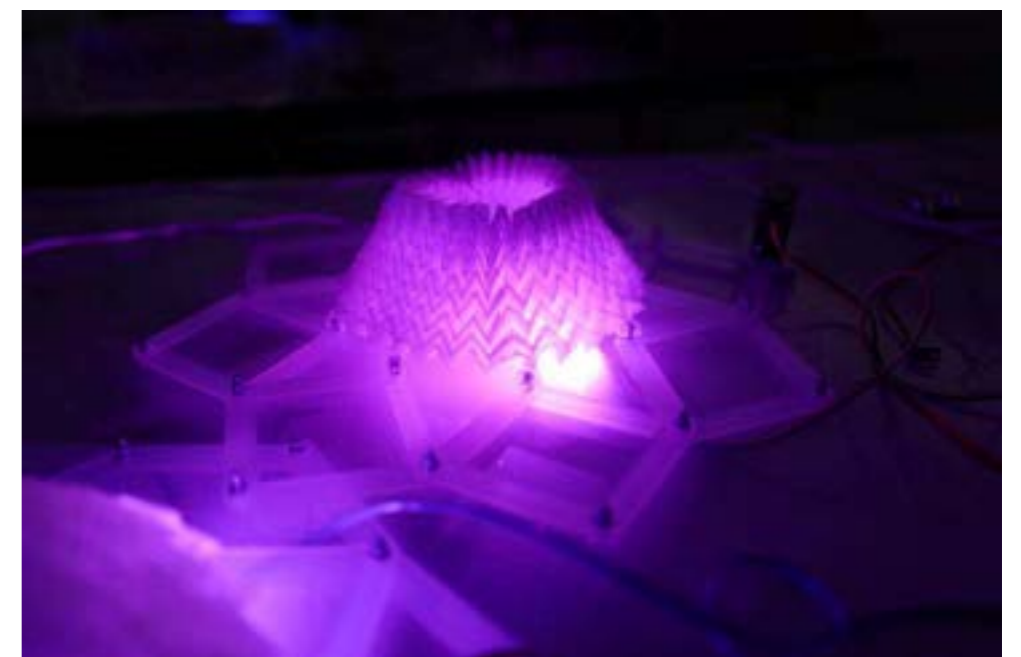
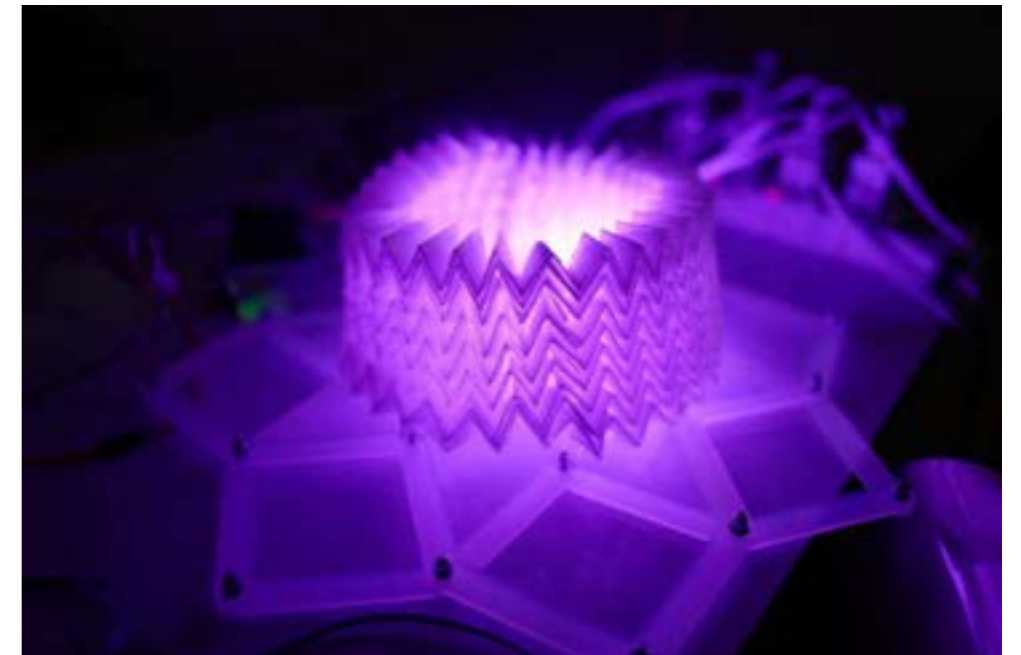
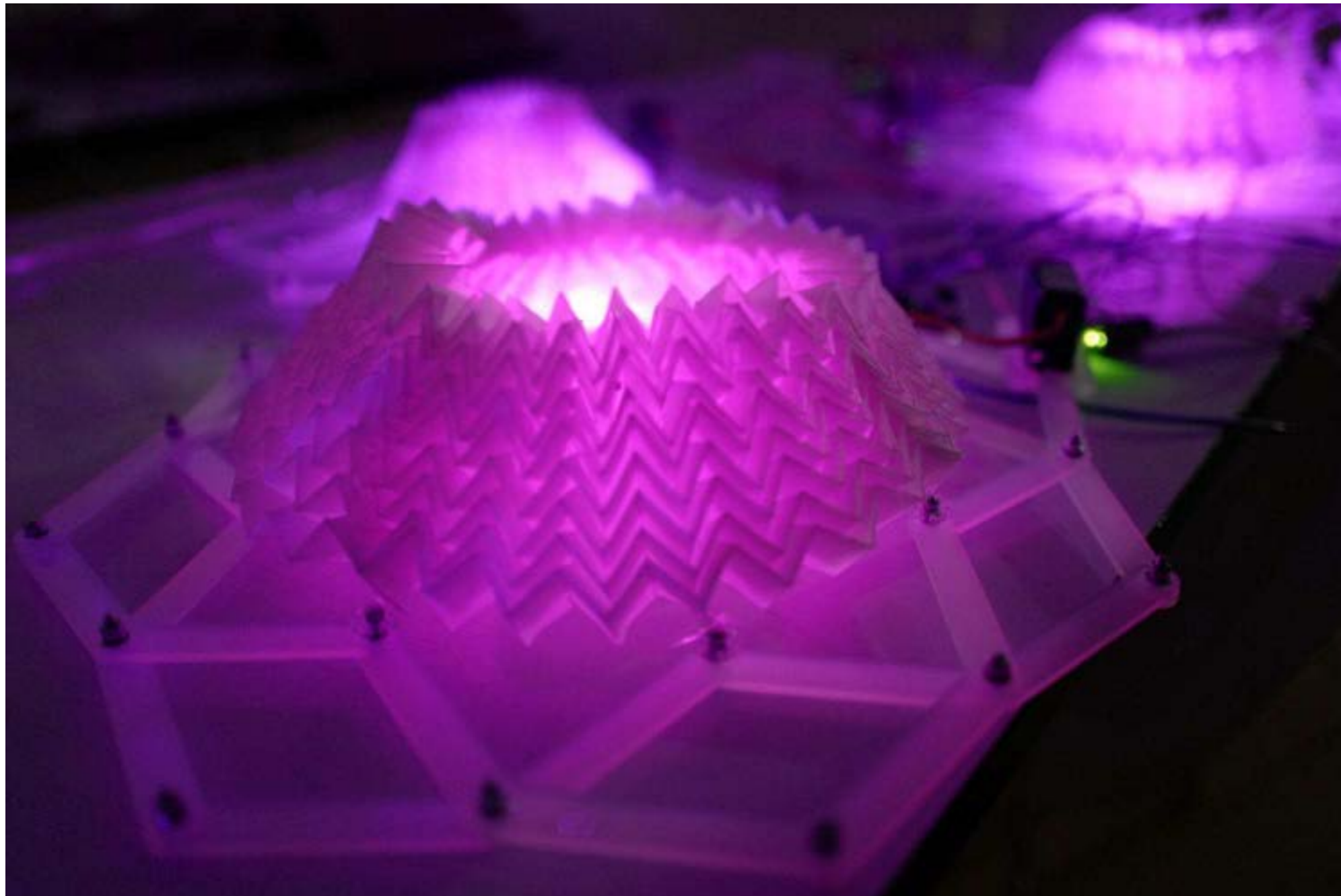
### Technology sublime - Preventative medicine for a dystopian future

introduction to microcontroller, sensors, kinetic and living robots

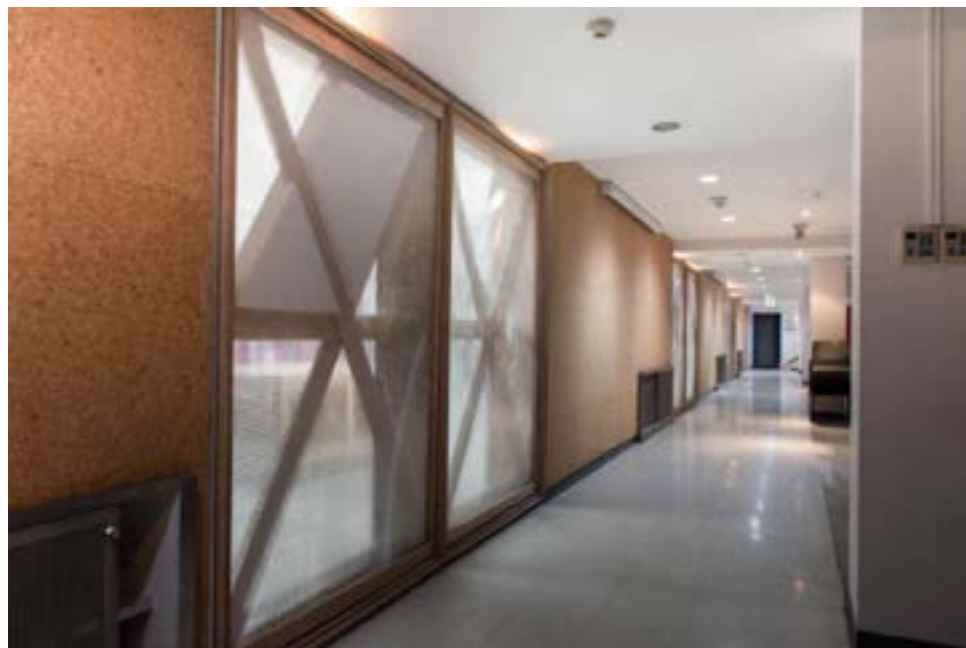
**INSTRUCTOR:** Hochschuh & Donovan

using a hands-on approach, this workshop offers an introduction to microcontrollers, sensors, kinetics, and robotic-activated systems to see how non-anthropomorphic objects can create compassionate responses in humans. using a variety of sensors, we discuss and explore new forms of mapping data and consider ways of achieving biofeedback mechanism. these experiments aim to activate and react to environmental influences for the purpose of collecting data for spaces that learn over time

the workshop was holding at Bangkok Design Week 2018 in the Central Post Office building. The project was consist of the interaction between human and movable mechanics. The kinetic mechanism is made from microship sensor that could detect moving around it and kinetics flower made from paper, kinetic system pvc and rotater device.







slide door partition, the furnitures were made within INDA LAB from plywood, and recycle material.



the renovation was included connect 4 classrooms into a long Lab space which require a whole space re-design from the beginning

## INDA LAB AT SAM YAN

Design Build Project

**INSTRUCTOR:** Patrick Donbeck

**Patxi Martin**

As part of INDA's occupation of its building in Sam Yan, we wish to involve students in the development of the existing facilities at the satellite faculty to substantiate Sam Yan as a maker space and a formidable resource for design production and exhibition at INDA. The project for the INDA Lab includes the renovation of old and new workrooms, the procurement, production, installation, and storage of tools, and the creation of a training program and new exhibition facilities.



## PYLONESQUE

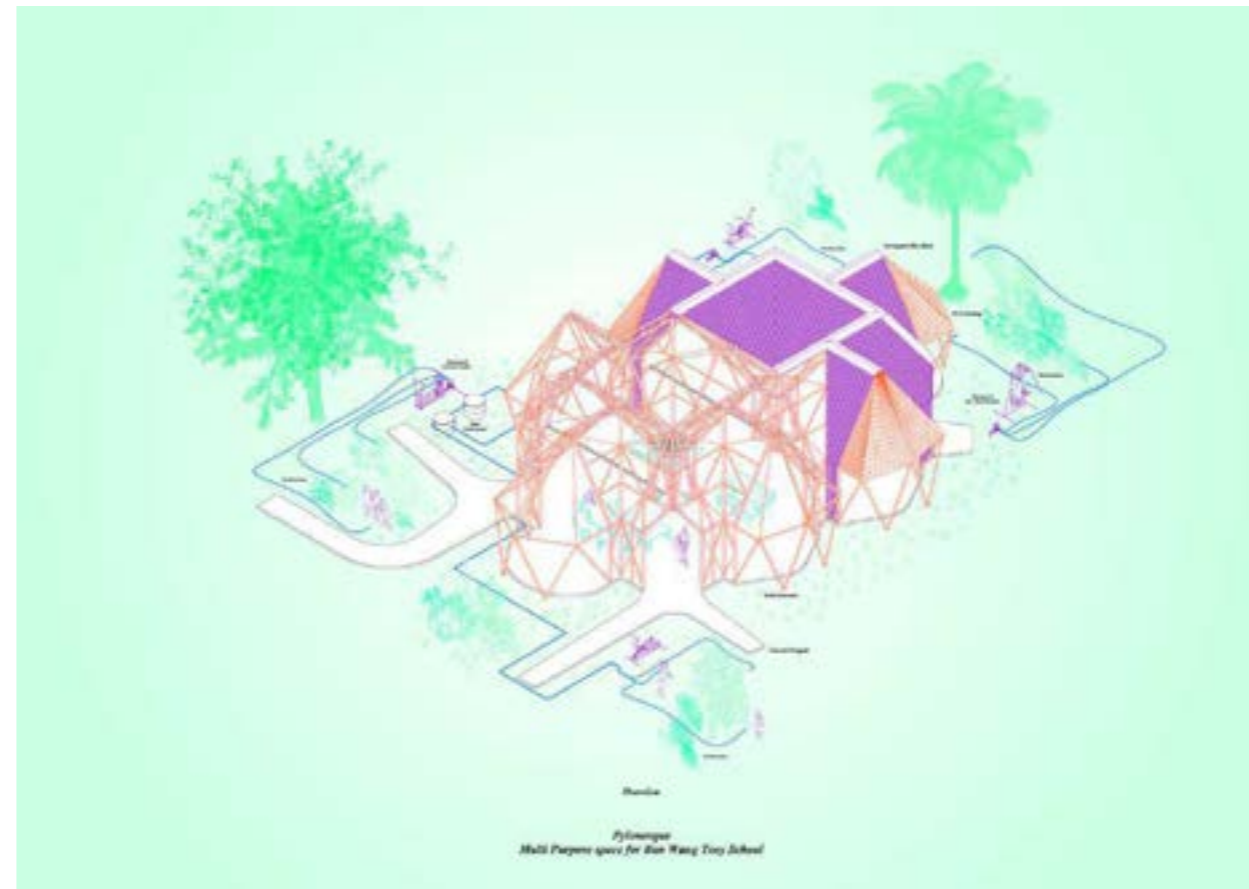
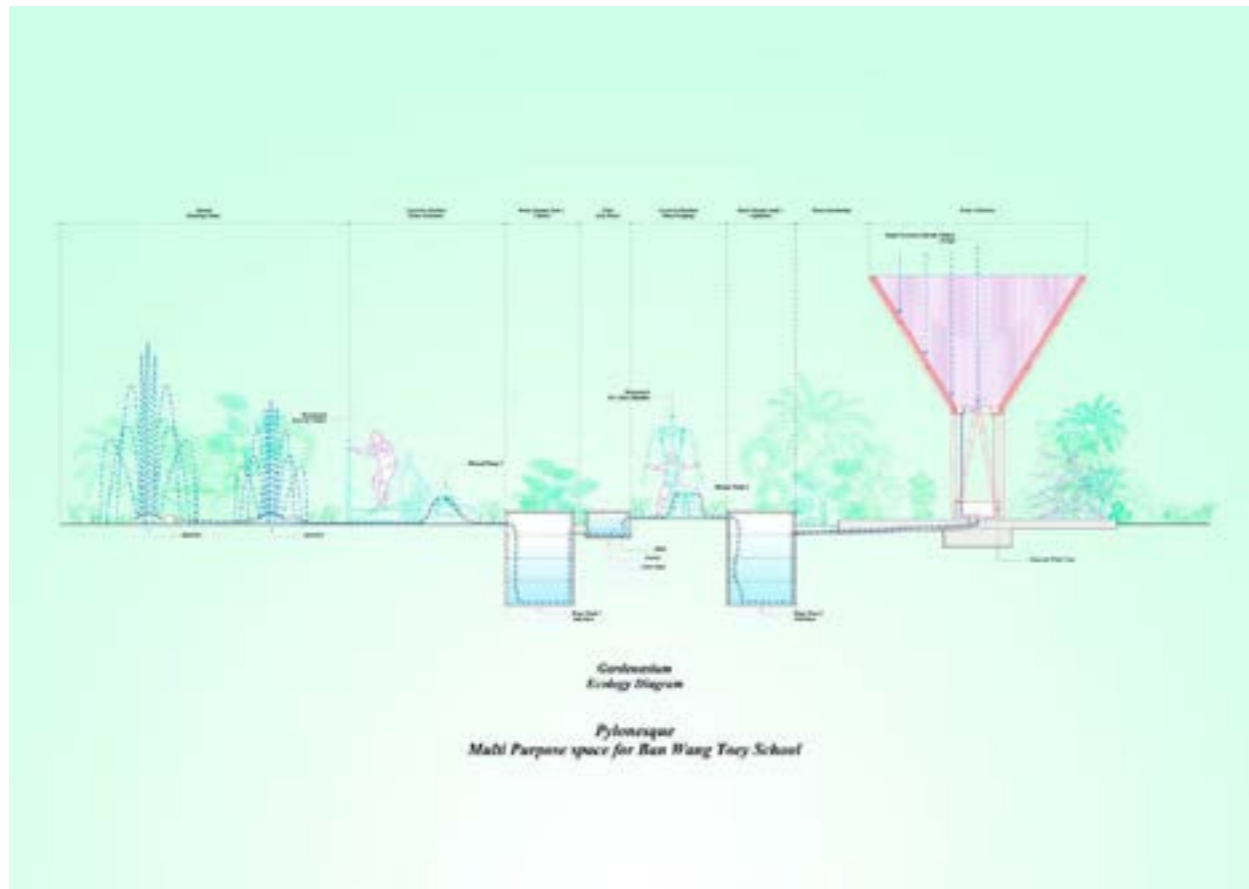
Design Construction Project  
design construction is a charity project for the community

**INSTRUCTOR:** Hardin Charbel

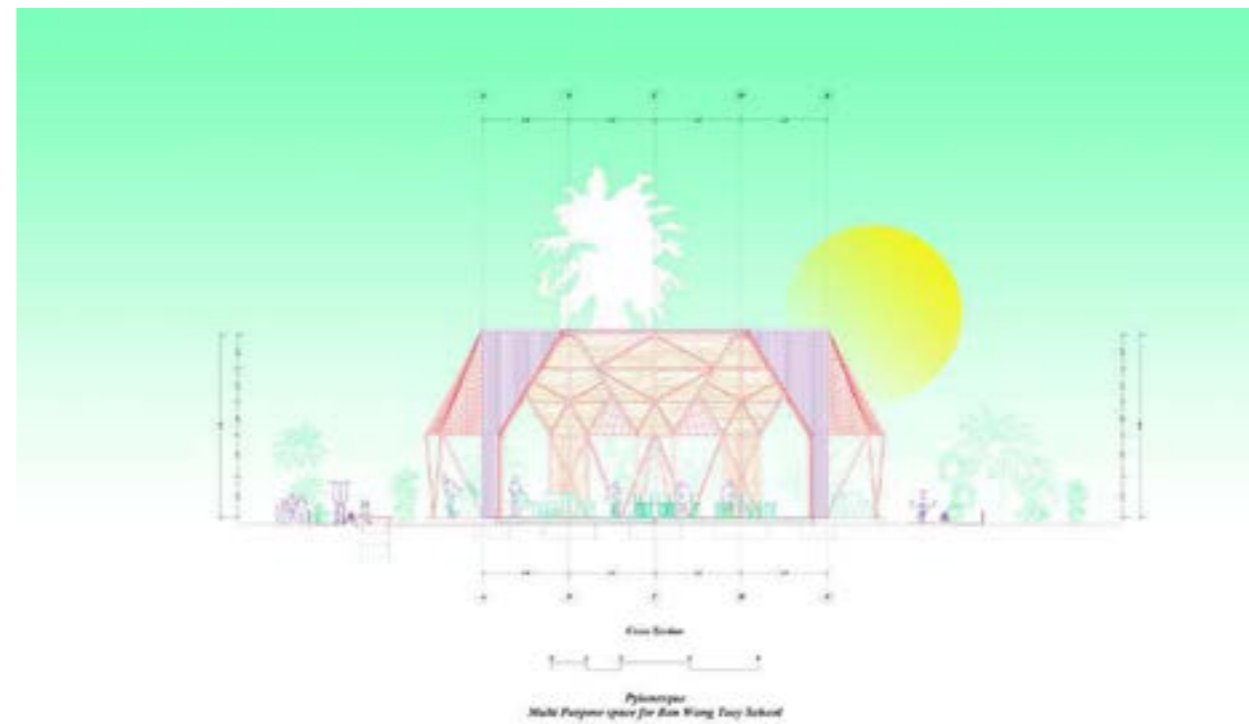
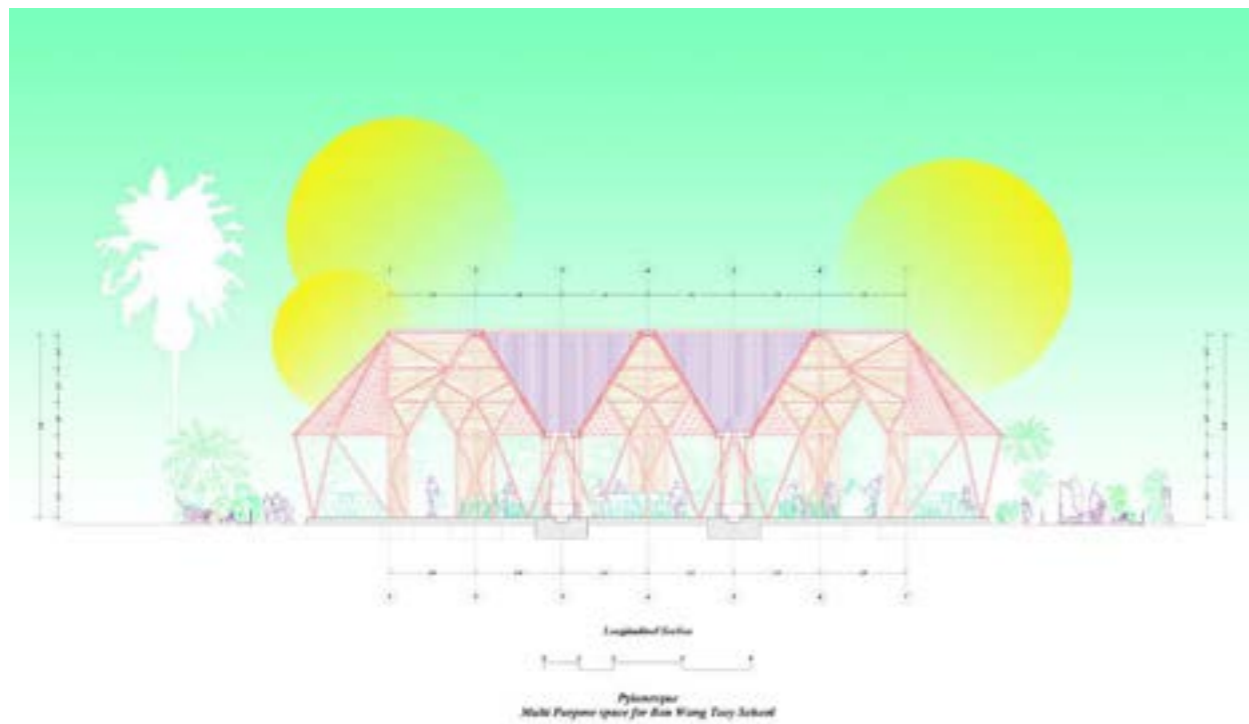
**Deborah Lopez Lobato**

Pylonesque is a water-harvesting mixed-use structure designed for an elementary and middle school located in a remote town in Uthai Thani province. The geometry and function is borrowed from the ubiquitous water towers and pylons seen across the natural and man-made landscapes in the area. the pylonesque structure guide water into the center of space where it is diverted and stored in a tank for later use.





by activating repurposed exercise equipment, human-powered kinetic energy helps to pump water, an act that is embedded with practical and cultural applications



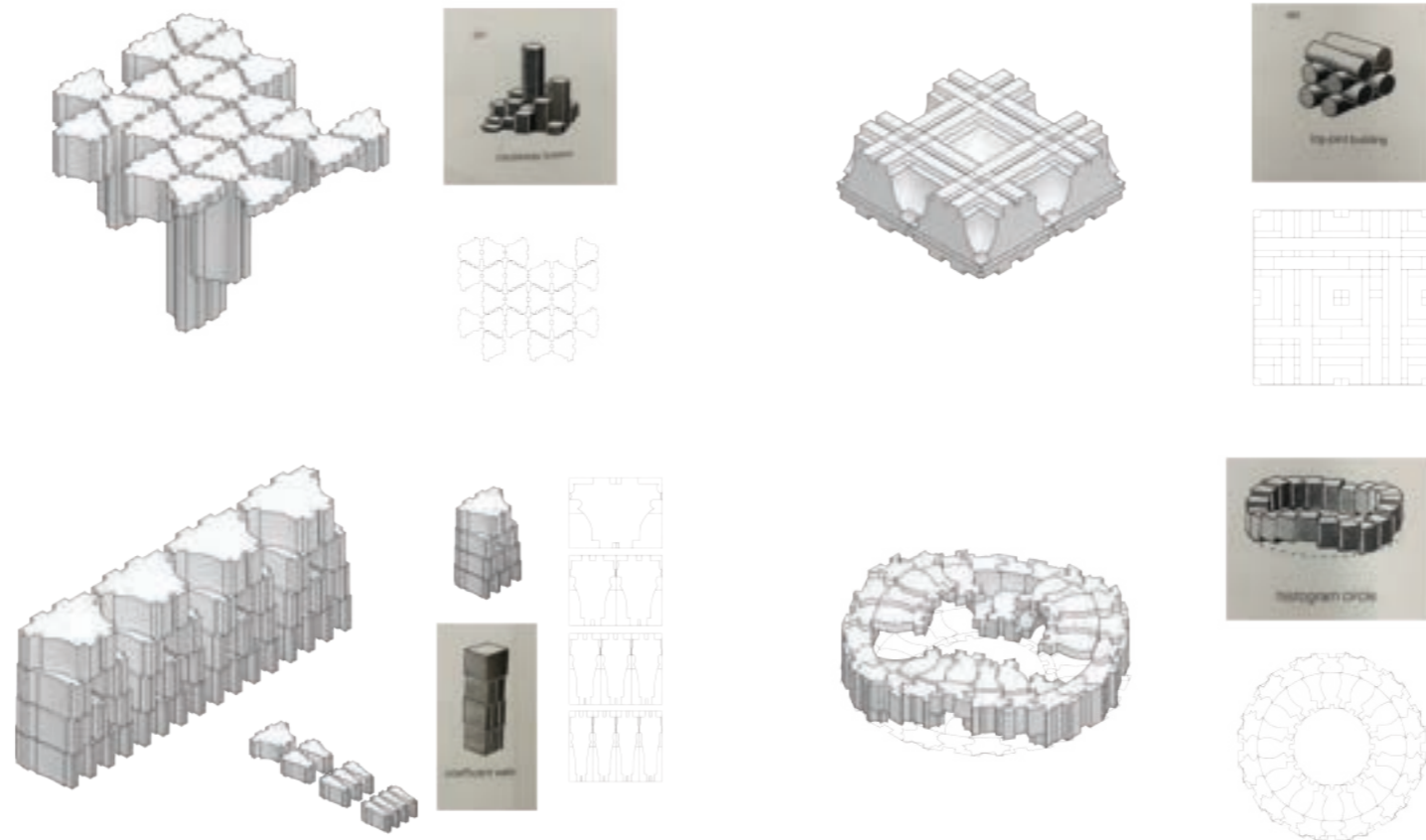
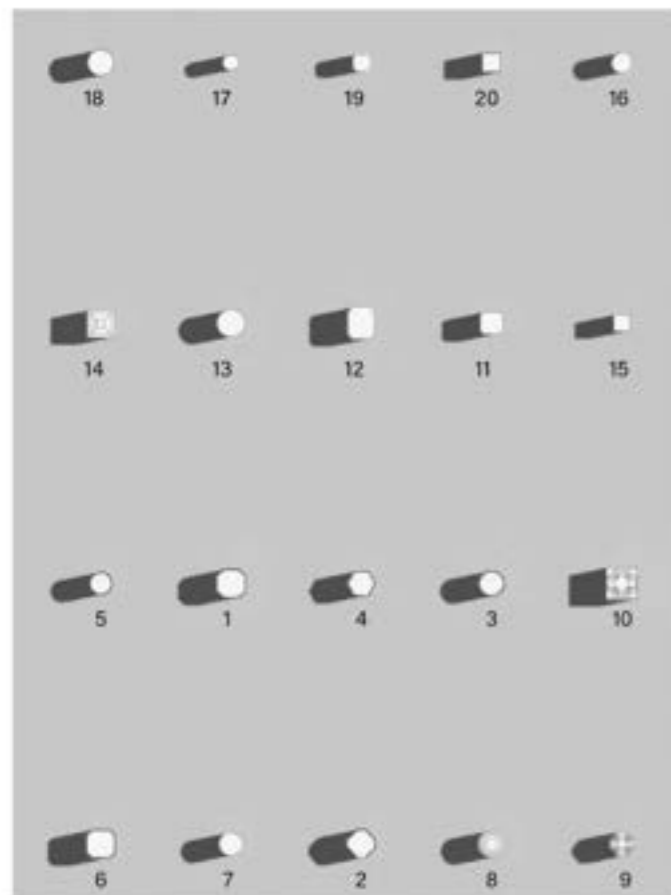
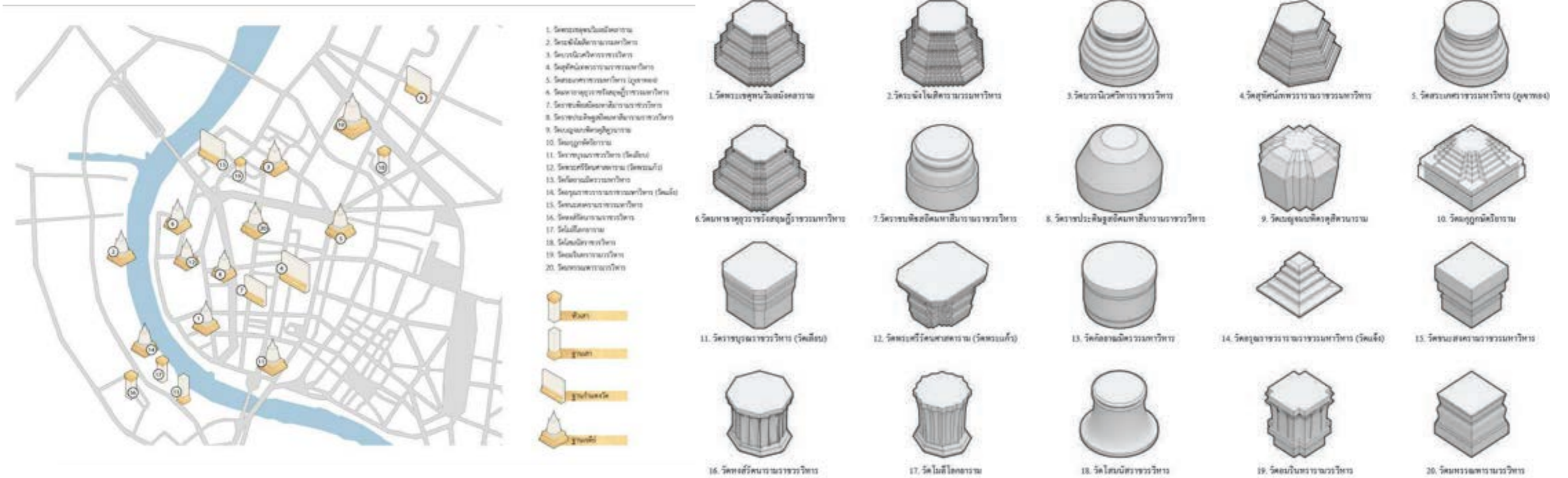


## FOUND WEDDING VENUE

found is a work during internship with PHTAA which is now on the construction phase  
the idea of this project coming from the vitruvius church combine to the Thai traditional  
element in the temples around Jao Phra Ya river, Bangkok







there will be multi function space which could adapt the activity inside, this method prevent the dead in architecture. inside this space we extract Thai temple element from 20 famous temple around Bangkok to combine and create a column of the space



after renovation



the old restaurant before renovate into Chui-chaek

## CHUICHAEK AT SILOM19

Business Project

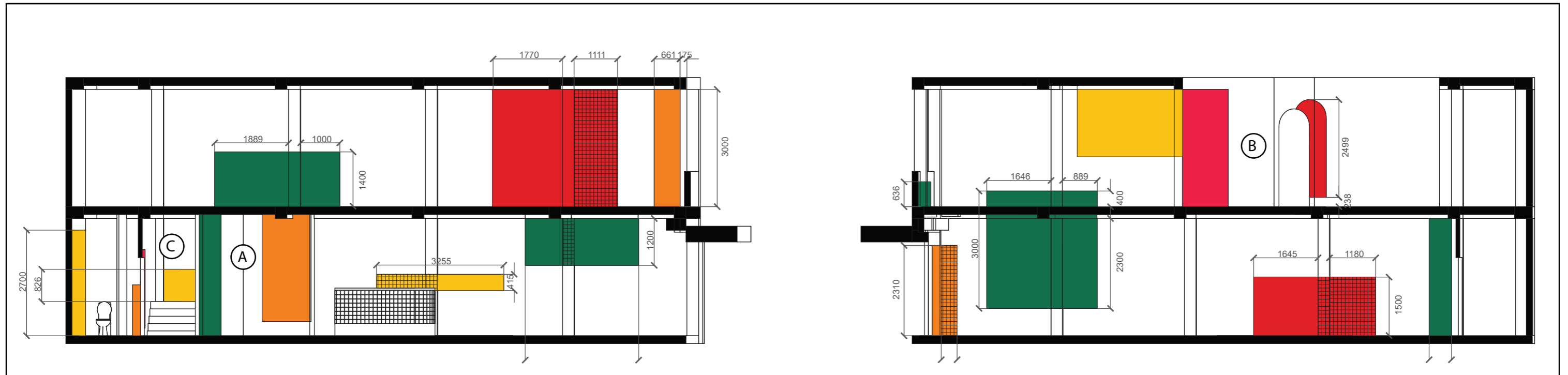
Chuichaek is a bar and restaurant located at silom 19, this project was done by me and Nana (my INDA friend). The project is very challenging for me because it's our first real renovation project after officially graduated from the university our jobs are to redesign an old Thai restaurant into a new playful bar.

Chuichaek come from ชูไช้ไช้ which in Thai its meaning is "not being the best at anything" The Owner of this bar feel that he and his friends is not being the best at anything but that kind of silly making they being whothey are which is playful. It's not bad to not being the best, they maybe good in many things.



So we start by planing which part of the old restaurant will remain and which part need to be deconstruct.





we decided that we will use black as base colour to contrast with colourful colors like red, green, yellow and orange to making the variety in color also making the eyes of the customer having a lot of spot to focus at and not boring this bar. we carefully select the part of the wall, floor and ceiling to place the colours





## TRIPLE TREE COFFEE

Triple Tree coffee is a project located at Klong 6, during the work with FATT Studio, this project was my first priority as a designer and architect. the owner of FATTSTUDIO let me lead the overall design of the building. The project itself is describe as a coffee shop but the functions the customer want very various, from creative working space to gallery. The exterior wall is using Polycarbonate on top of concrete wall to create blurry wall that could allow natural light to enter the shop

