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## CHANAKAN **CHORMAI**

A junior architect, who has experiences in various types of work, seeks for a place that can fulfill her curiosities and aspiration in design aspects as well as becoming a good designer that can enhance people's lives and communities.

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#### SOFTWARE SKILLS







REVIT **AUTOCAD** 

SKETCH UP





RHINOCEROS GRASSHOPPER

LUMION







**ENSCAPE** 

VRAY

**PHOTOSHOP** 







ILLUSTRATOR MICROSOFT **OFFICE** 

INDESIGN

## OTHER SKILLS

SKETCHING 80% PAINTING

#### LANGUAGES

THAI FLUENT **ENGLISH** IELTS 6.5 CHINESE BEGINNER

#### **STRENGTHS**

**FLEXIBILITY** 

EAGERNESS TO LEARN

CREATIVITY

POSITIVE THINKING

**TEAMWORK** 

**SELF-MOTIVATION** 



#### **EDUCATION**

King Mongkut's Institute of Technology Ladkrabang (KMITL) Bangkok, Thailand

August 2014 - June 2019

Bachelor degree of Architecture (B.Arch) with a GPA of 3.43 Senior Project: Applied Mathematics and Algorithm Museum

#### WORK EXPERIENCES



2020 Junior Architect: 3 - month Contract

VIRTUARCH Ltd., Bangkok, Thailand

June 2020 - August 2020

- Cooperated with stakeholders and assist team to works on time breakdown
- Developed the design, 3D models and post-process results
- Coordinated constuction documents and details

2020 Junior Architect

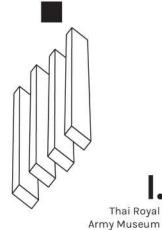
VARY Design Ltd., Bangkok, Thailand Oct 2019 - May 2020

- Involved in schematic design and facade design
- Developed the design with material and color
- Developed 3D models and post-process results

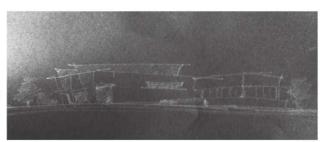
2018 • Architectural Intern

Creative Crews Ltd., Bangkok, Thailand May-July 2018

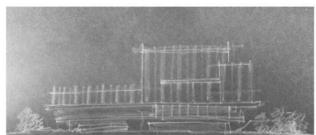
- Developed the design guideline based on physical and geological information
- Involved in research, concept, and schematic design
- Cooperated with stakeholders and addressed arising issues
- Developed 3D models and post-process results



## PROJECT INDEX.



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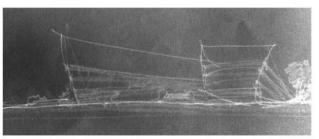
Maesai Medical Center

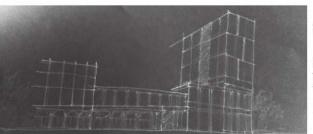




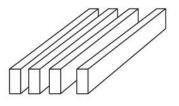
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# Thai Royal Army Museum

Location: Sara buri, Thailand

Thai Royal Army museum told stories awakening our perceptions to see all aspects, the friendships, the braves and the losses of being soldiers during the long ride journey sacrificed to the motherland, located in Sara buri, where was the old main station of the royal army.

**DESIGN CONCEPT** 

## INTERSECTION



To make people understand the army and historical situations, Mass form was the intersection of 2 rotated axes which were brave and fear with the circulation simulated the fighting journey divided into 3 parts,

#### I.The Origin

Royal Army by its history fight or the wars by through clothes, badges, using a virtual battlesongs, vehicles, and field making audiences weapons.

#### II.The Fight

feel the edge of life and death.

#### III.The Memories

back the stories to all braves, friendships, and losses during they fought for their motherland.

# This part told the Thai This part presented the The last part flashed

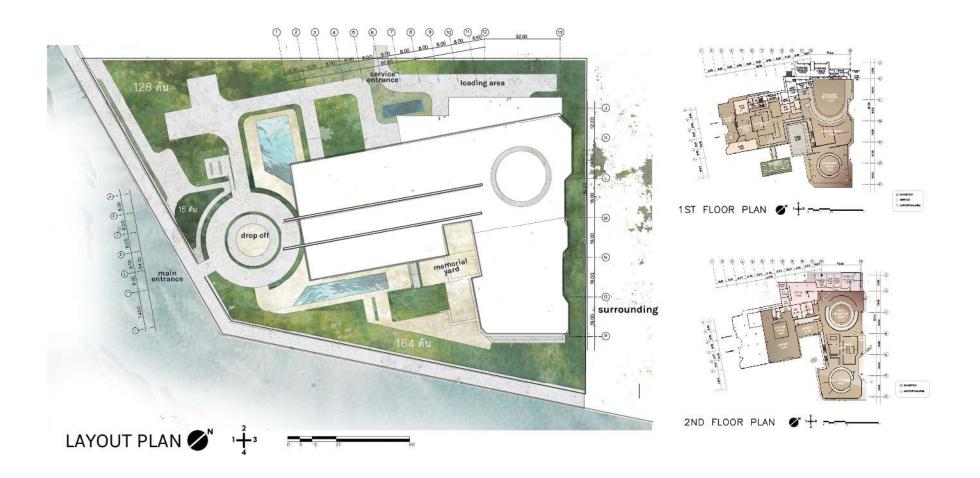
STIMULATE 5 SENSES





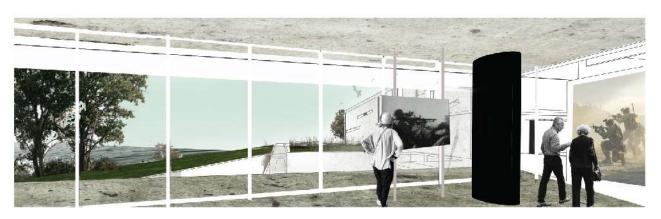








## TO EDUCATE TO REALIZE TO UNDERSTAND



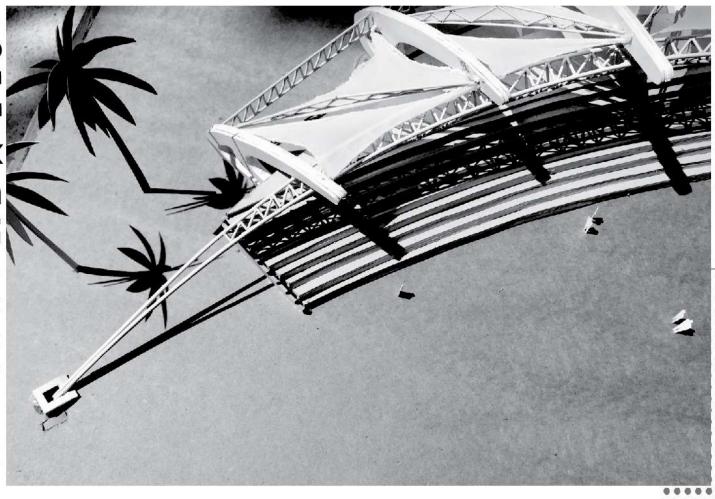
Exhibition space when audiences watched the last exhibition, space would gradually getting natural light from the-memorial, where located the story beneath the land, as their bodies were still foundations of the nation, and their braveries were an inspiration to us all.

# Aquatrax Stadium Location: Jomtain beach

Pattaya, Thailand

Jet Ski World Cup is the biggest jet ski annual tournament holded at Jomtian beach, Pattaya city ,with worldwide fanbase, over 1,800 seats shoreside, the biggest of its kind, and the cheering crowd rooting for their favorite riders.

Aquatrax Stadium aimed to express this sport by dynamic shape using curve, structures and durable material fit to its location where the heat and humidity were the main parts to be concerned.



Using dynamic wave curve to be a prototype of the main structure



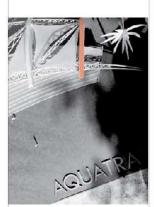


Using the curve of riding path to represent the outlining plan and dynamic shape

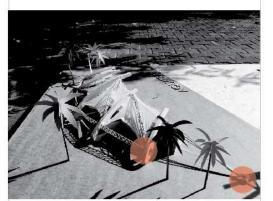
DYNAMIC WAVE CURVE

MOTION CURVE

The structure combination is the key, making form and function stands out as one ,and also protects sunlight and humidity directed to the surface of structures.



Using built-up sections, as rigid frames to be the main structure, benefited in abilities in a curving and having lighter weight compared with concrete structure.



The space truss arches which support loading from the roof structure to the end of the arches.



Combining structure to make gray space within the stadium by the white fabric tension covering the seats can protect sunlight during competitions and also feel comfortable because the gaps between each tension ventilate the heat to the atmosphere.



# **Thai National Theater**

Location: Bangkok, Thailand

Music and performances, the products of cultural civilization, have been forced to meet challenges of its direction through times.

Thai National Theater, mix-used project, attempted to bring the traditional elements in Thai architecture, which hade a signature in overlapping the base, back to life by fitting new functions as theaters, youth clubs and retails, located at Chaophraya river where Thai life, arts, and culture began, Making nation's treatures, the music, and performances, are more approachable.



ELEMENT DESIGN

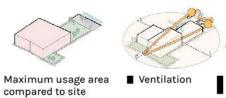
MORE STEP

1 PROGRAM 90.120.67 su

STEP

PLANNING









Fitting zonning and theaters Ventilation

Layering the horizontal circulation

MASS DEVELOPMENT



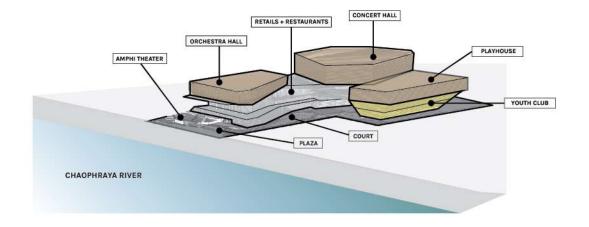
Grouping service area

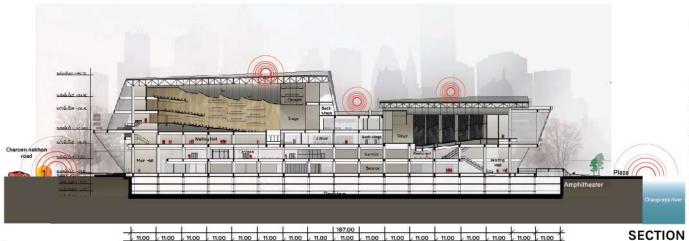
Opening Chaophraya river with plaza to connect with inside of the project

Rotating building to be an approach a court to be aninteractive space

Opening courts and overlap the facade layer to make from the road and leshade and light effect during day and night time.

#### **ZONNING DIAGRAM**





#### **ACOUSTIC DESIGN**

Besides site orientation and sun part. Acoustic design, the main part to be concerned for all theaters, decreases noise in 3 levels, first is detecting noise from the street which is front of the site, second is protecting noise from material with double theater wall and the third is to protect extra noise from HVAC system with a noise insulation



Playhouse

Large rehearsal room



Orchestra hall



Building area Parking building area





# The Eternity Headquarter

Department of Mineral Fuel, Ministry of energy

Location : Bangkok, Thailand

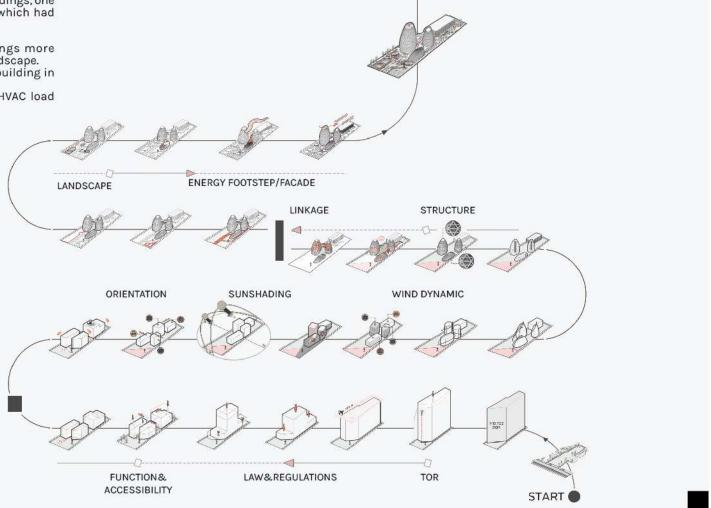


The Eternity Headquarter aimed to represent the purpose of the ministry of energy using least energy consumption in all aspect of the design, from planning, material, to construction process es and also to make the most efficient in working, which were the most important part in enhancing working life quality.

## MASS DEVELOPMENT

The process of designing this headquarter was to create the most efficient working space by dividing the function into 2 main buildings, one museum and one parking building, which had advantages in

- Decreasing the height which brings more connection to the green area and landscape.
   Getting the sunshade from beside building in
- the daytime Reducing electrical, sanitary and HVAC load usage in controlling individually



FINAL

Total floor: Building A 15 floors

Building B 11 floors Museum 4 floors Parking 8 floors

#### • OFFICE

- 1. PROCUREMENT OFFICER ( เจ้าหน้าที่ผู้สดุ )
- 2. OFFICE SUPPLIES ( ห้องผัสดุสำนักงาน )

#### LEARNING CENTER

- 1. HALL
- 2. EXHIBITION SPACE
- 3. LEARNING CENTER STORAGE

- SHOP & RETAIL
- 1. 7-ELEVEN
- 2. SOUVENIR SHOP
- 3. AU BON PAIN
- 4. MISTER DONUT
- 5. ORGANIC FOOD 6. WARAPORN SALAPAO
- 7. INSURANCE
- 8. BANH 1



FACILITIES

1. BIHE PATH

2. MEETING POINT

3. RELAX SPACE

## FIRST FLOOR PLAN

#### MECHANICAL & EQUIPMENT

- 1. CHILLER ROOM 2. TRANSFORMER ROOM
- 3. MDB ROOM
- 4. CENARATOR ROOM
- 5. WASTEWATER TREATMENT POND

#### MANAGEMENT & SERVICE

10. STORAGE

12. CONTROL ROOM

- 1. SOUVENIR STORACE 9. POST-OFFICE SERVICE
- 2. STAFF ROOM
- 3. STOCH ROOM 11. STORACE
- 4. BANH SERVICE
- 5. BANH SERVICE
- 6. CANTEEN STORAGE
- 7. RETAIL STORAGE
- 8. COURT YARD ( DROP OFF SERVICE )

#### TOILET - FIRE ESCAPE

- 1. MEN RESTROOM
- 2. WOMEN RESTROOM
- 3. BATH ROOM
- 4. FIRE ESCAPE

#### PARKING

- 1. OUTDOOR PARKING 2. BUS PARHING
- 3. BICYCLE PARKING
- 4. CAR PARK BUILDING
- 5. SERVICE PARKING



Entrance Office area

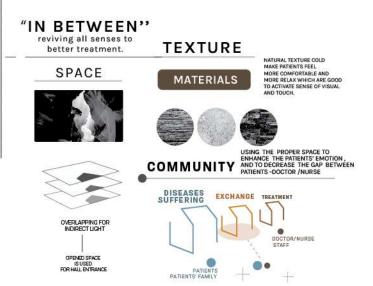


# Maesai Medical Center

Location: Chiang rai, Thailand

Maesai, a small village located at Chiangrai province, is facing its challenges in population balance, which is becoming an aging society.

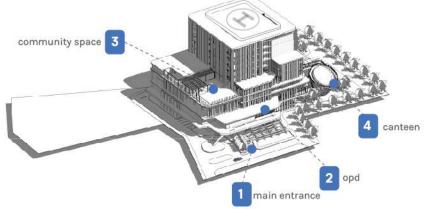
Maesai Medical Center aimed to re-generate the interaction between aged patients with cutting-edged design to decrease boundaries between patients and nature, which are the main part of the long term treatment.

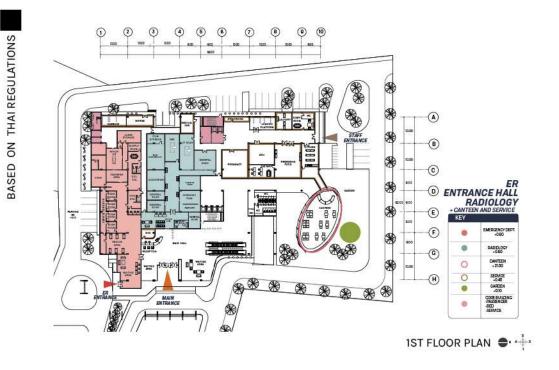


more than treatments, but enhance the paitents' interactions.

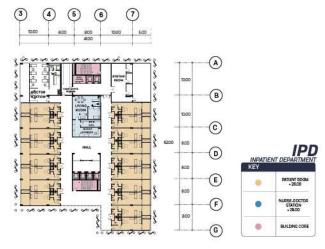


"THE CONNECTION" the Community space on the 5th floor is opened to enhance patients' mental health with the opened air terrace so they can talk to each other and taking the fresh air.













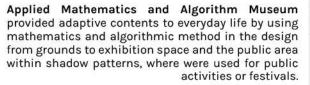
Getting indirect light from the east makes the indoor area opened space more lively and healthy, also using color to easy recognition to the patients in each department.





# Applied Mathematics and Algorithm Museum (AMAM)

Location : Pathumthani, Thailand





LAYOUT PLAN



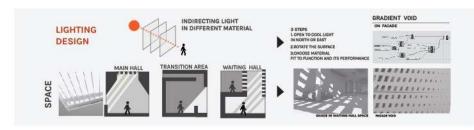
#### DESIGN CONCEPT

Conceptual design methods in this project were divided into 3 parts.

The first was to unfold mathematical thinking within daily content to convince the audience and fun atmosphere during seeing exhibitions.

The second was to decode mathematics method within algorithm in oriented-design, circulations and exhibition planning.

The third was to unfold the applied mathematics to create the inside and outside-space effect through times.



#### COLLECTIVE ELEMENT + CIRCULATION



## EXPLODING PLAN

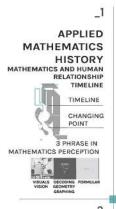
**FUNCTION** 





#### **EXHIBITION SPACE**

8 STORIES OF APPLIED MATHEMATICS AND ALGORITHM CHANGING OUR LIFE.



BASIC ALGORITHM MATHEMATICAL GAMES

learning algorithm with mathematical games

APPLIED MATHEMATICS AND BEAUTY

THE EYE OF PI GOLDEN RATIO FIBONACCI SEQUENCE



FRACTAL FRACTAL IN IN NATURE MODERN WORLD



PLAN

VISION

THE ZOETROPE has opened many doors for animation. that if pictures spin faster, and have more frames in the drum THE FIRST STEP OF ANIMATION-

FRACTAL GEOMETRY

it becomes the more smooth animation. WORLD

APPLIED MATHEMATICS

AND ENTERTAINMENT

## APPLIED MATHEMATICS AND

MATTER OF CHANCE

PROPABILITIES **GAME THOERY** 



CELLULAR MODULE REPETITION BY REFORMED GEOMETRY

#### **APPLIED MATHEMATICS** AND LIFE SURVIVAL

GEOMETRY FRACTAL MATCHING ALGORITHM DNA



FLOOR PLAN

2ND

#### APPLIED MATHEMATICS AND NETWORK

BINARY NUMBER ARTIFICIAL INTELLIGENCE CLOUD



NETWORK CONNECTING DOTS

#### APPLIED MATHEMATICS AND COMPUTER

BEGINNING OF COMPUTER DOT AND DASH



WHEN MATHS BECAME THE PROCESS FOR SOLVING PROBLEMS WHICH IS INVISIBLE.



USING PROJECTION MAPPING TO METHAPHOR THE MAKING CODE PROCESS



APPLIED MATHEMATICS AND ENTERTAINMENT



APPLIED MATHEMATICS HISTORY



APPLIED MATHEMATICS AND MATTER OF CHANCE



APPLIED MATHEMATICS AND LIFE SURVIVAL



APPLIED MATHEMATICS AND NETWORK



#### PINGDU RESIDENTIAL PROJECT

Mixed used project, including residential part, commercial and hotel, brought the old and modern atmosphere to the site. Using red bricks as the represent of the industrial era, the project become attractive and unique.

#### RESPONSIBILITIES

- Involved in facade design on commercial part and the hotel
- Worked on presentations
- Developed 3D models and post-process results



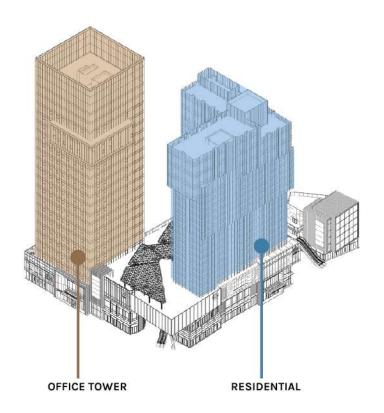


#### THE FINANCIAL CENTER

The financial center came with challenge of its position and surrounding. The outstanding approach with the lifted-up canopy at the corner, allowed the comers look up to the towers reflex to the sunlight through time and the city.

#### RESPONSIBILITIES

- Involved in facade design on commercial part and office tower part
- Worked on facade details and presentations
- Developed 3D models and post-process results







### **TIANYI KINDERGARTEN**

This project aimed to build the interactive learning space with the courts through the site and classrooms which benefit not only for the learning process but also the friendly and lively atmosphere with nature.

#### RESPONSIBILITIES

- Involved in landscape, canopy and facade design.
- Worked on facade details and presentations
- Developed 3D models and post-process results

