

# PORTFOLIO

ATBR2206 ARCHITECTURAL DESIGN STUDIO 2  
CHUNG JUN KIT 19WVD02503

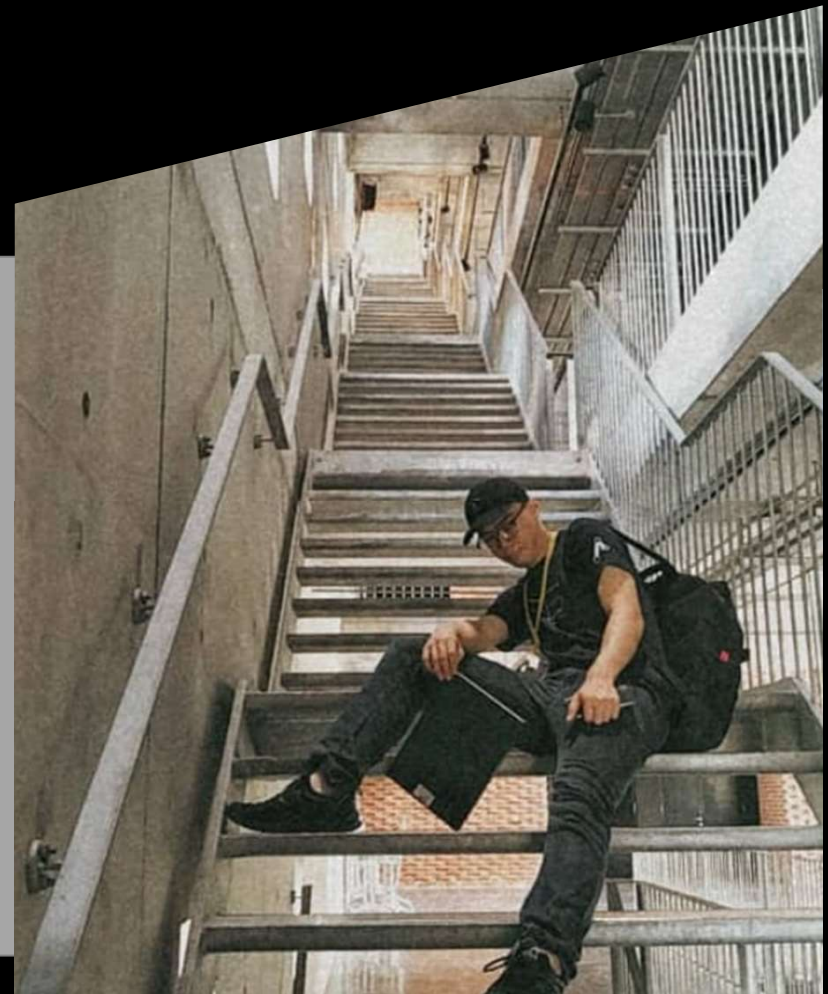


HELLO.

My name is Chung Jun Kit. Currently taking Year two semester one Diploma in Architecture in Tunku Abdul Rahman University College. I always excited to learn something new especially in design.

## PERSONAL INFORMATION

Name : Chung Jun Kit  
Date Of Birth : 12 July 2000  
Nationality : Malaysia  
Address : Lot B 1430, Lorong 57, Taman Indah Jaya, 90009, Sandakan , Sabah  
Religion : Christian  
Contact : 017-8232168  
Instagram :Nathan.kit.kat







My objective bringing something new to the world, never give up and hardworking is the key to be a successful architect.

# CONTENT



PROJECT 1 : ANTHROPOMETRY  
AND ERGONOMIC STUDIES



PROJECT 2: DIY FLAT PACK  
CHAIR FINITURE DESIGN

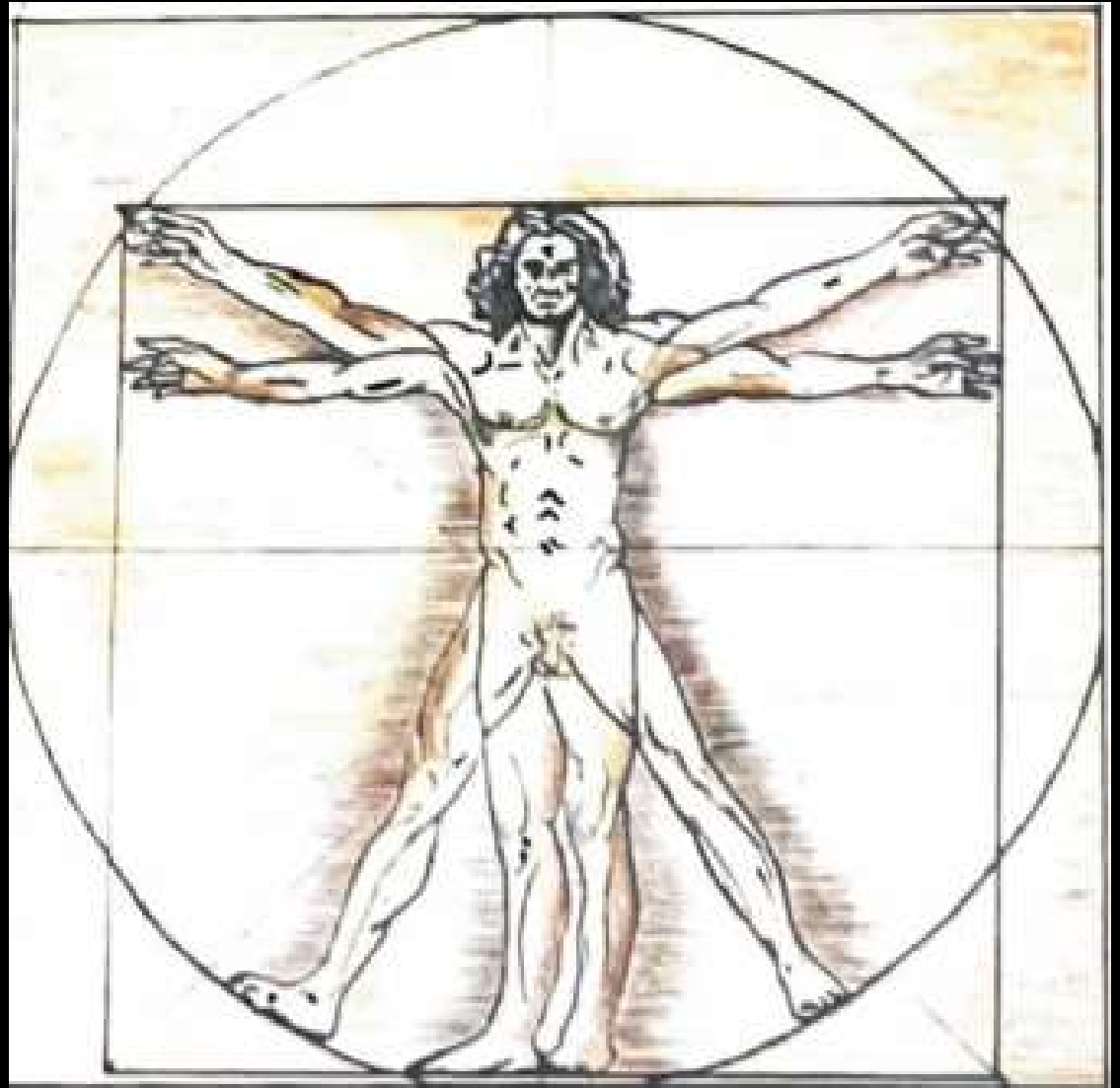


PROJECT 3: COMPACT  
LIVING ARTIST STUDIO

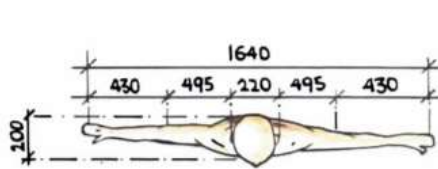


# PROJECT 1: ANTHROPOMETRY AND ERGONOMIC STUDIES

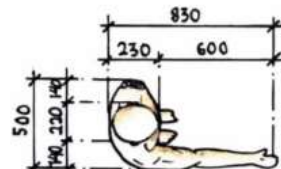
Anthropometry is the study of human body measurement. It is used to understand physical variation among humans and provide a kind of baseline for human measurement. While ergonomic is the study of people efficiency in unit environment. Hence, Anthropometry and ergonomic design seeks to create the most efficient work place while providing comfort for people living within it.



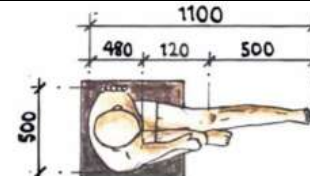
# ANTHROPOMETRY DATA (SCALE 1 :25)



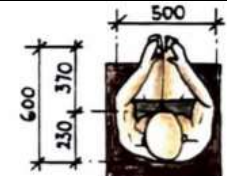
STANDING PLAN VIEW



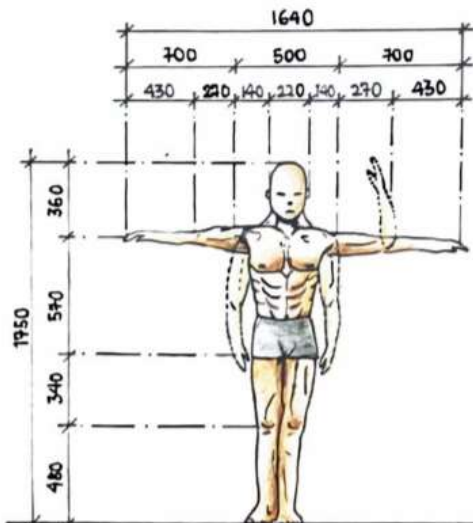
STANDING PLAN VIEW



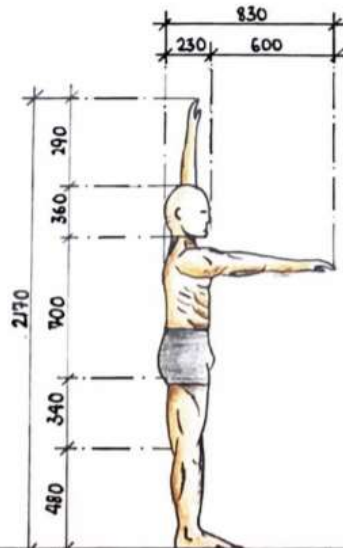
SITTING PLAN VIEW



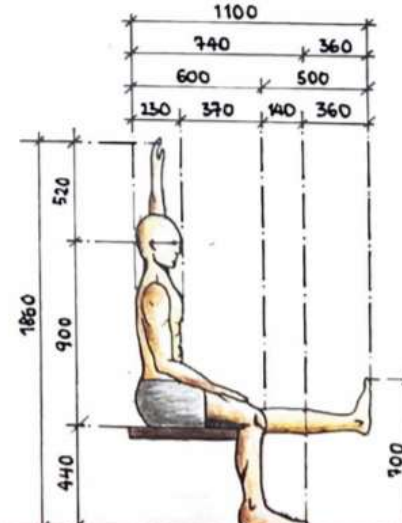
SITTING PLAN VIEW



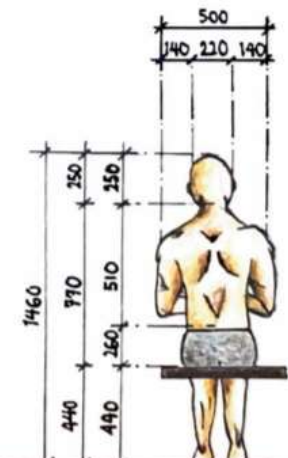
STANDING FRONT VIEW



STANDING SIDE VIEW



SITTING SIDE VIEW

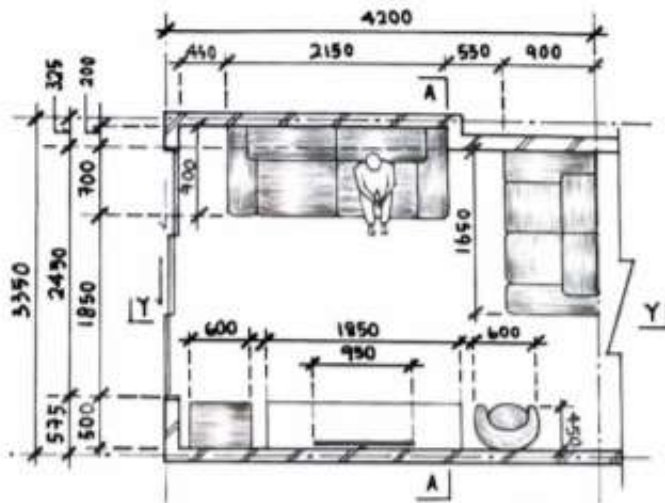


SITTING REAR VIEW

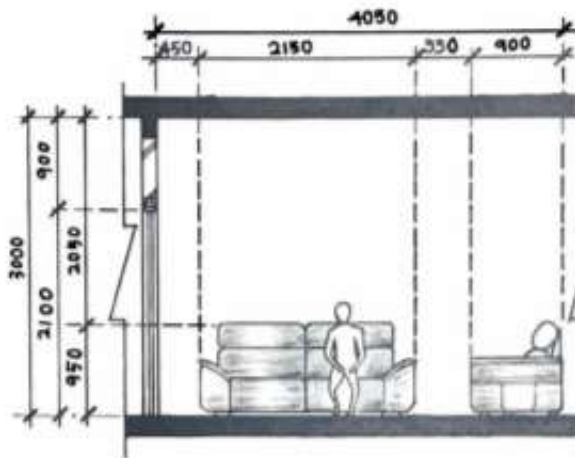


# SPACE ERGONOMIC ( SCALE 1:50 )

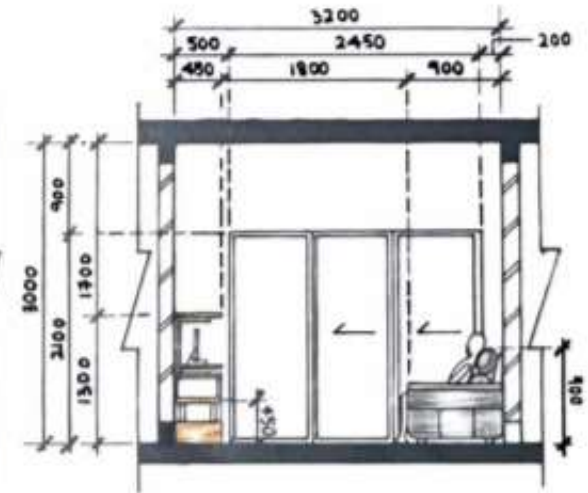
## LIVING ROOM



PLAN VIEW

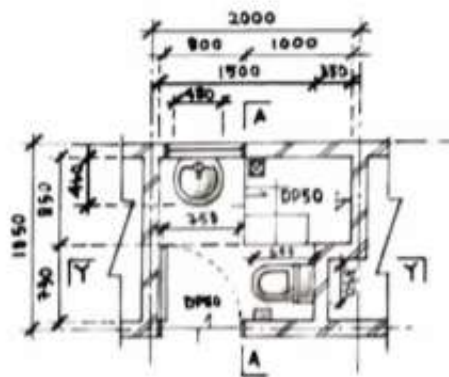


SECTION Y-Y

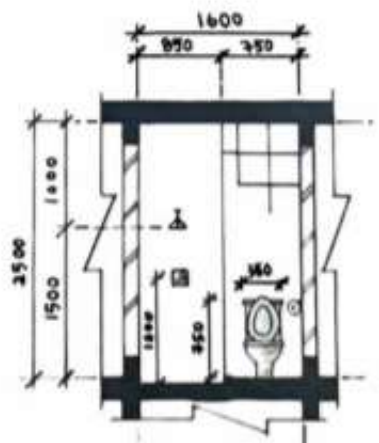


SECTION A-A

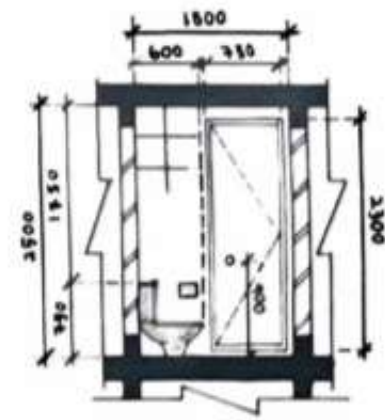
## BATHROOM



PLAN VIEW



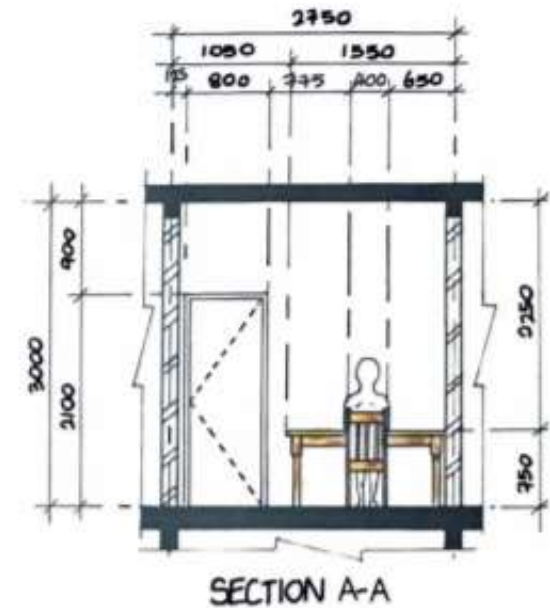
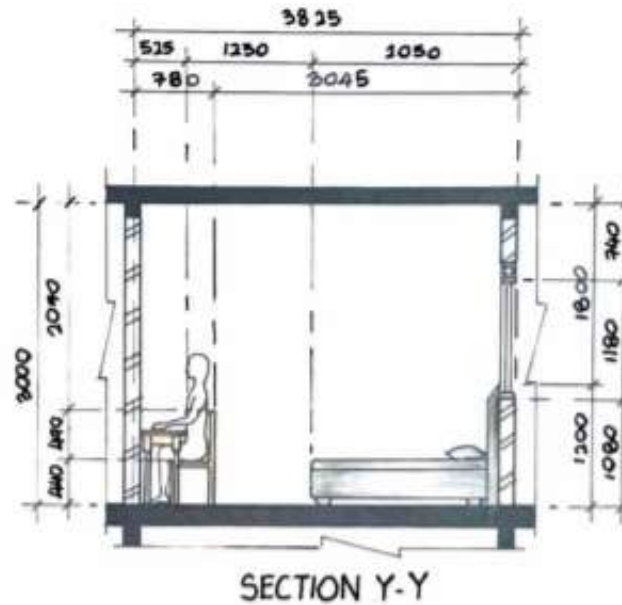
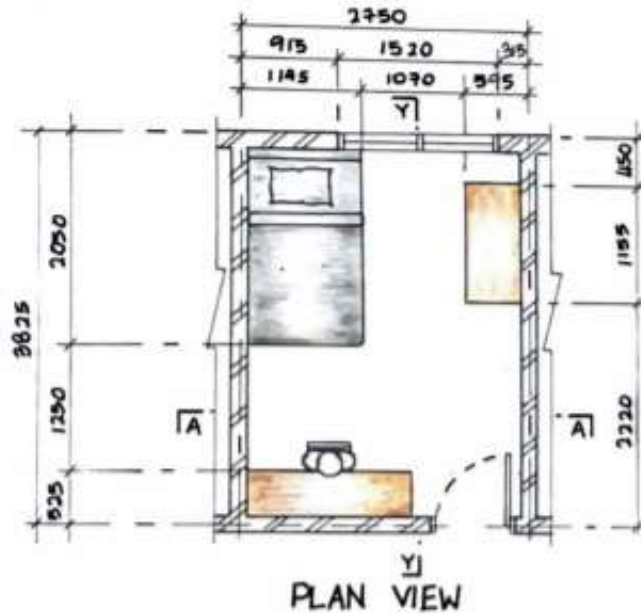
SECTION A-A



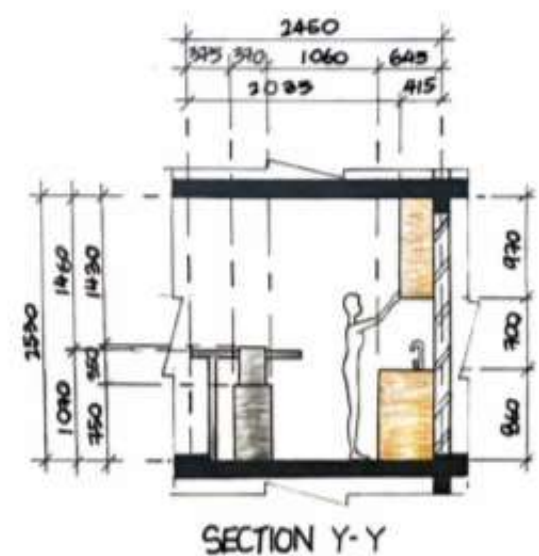
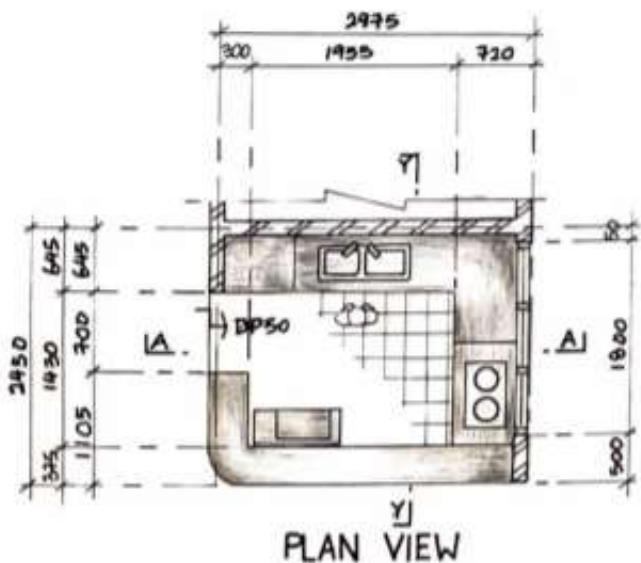
SECTION Y-Y

# SPACE ERGONOMIC (SCALE 1:50)

## BEDROOM



## KITCHEN

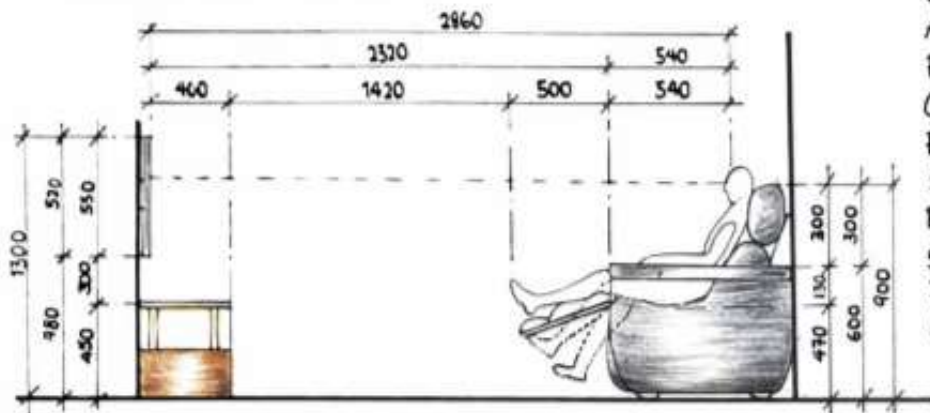




# SPECIAL DETAILS: HUMAN WITH FURNITURE

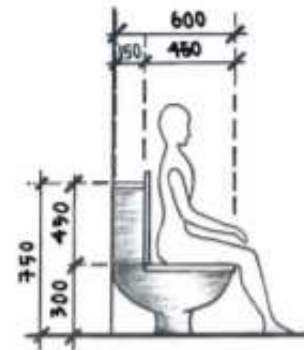
(SCALE 1:25)

## LIVING ROOM



THE SOFA IS ADJUSTABLE TO PROVIDE A COMFORT SITTING POSITION. THE EYESIGHT AND DISTANCE BETWEEN SOFA AND TELEVISION IS COMFORTABLE.

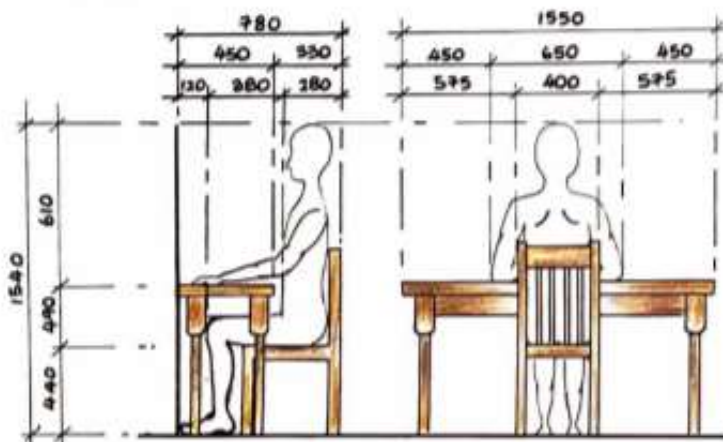
## BATHROOM



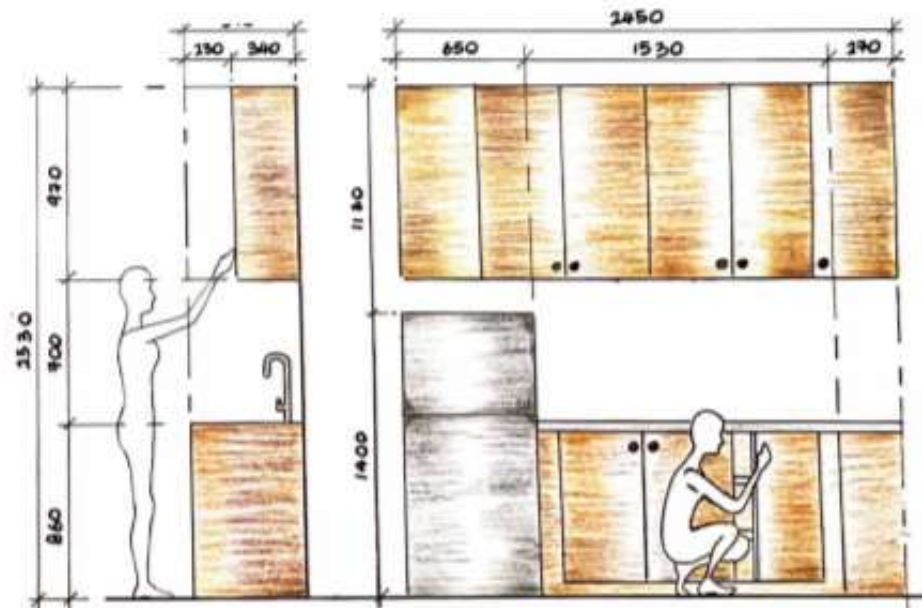
A PROBLEM ABOUT THE TOILET BOWL IS THE SIZE OF IT, IT IS A BIT SMALL FOR PEOPLE WITH LARGE DIMENSION, THEIR LEG WILL HAVE TO BEND MORE INWARDS OR OUTWARDS COMPARE TO A SMALLER SIZE PERSON.

## BEDROOM

CHAIR AND STUDY TABLE ARE NOT SUITABLE FOR TEENAGE AND ADULT AGE BECAUSE IS VERY SMALL AND UNCOMFORTABLE AND IN LONG TERM WILL CAUSE PAINFUL TO NECK AND SPIRAL.



## KITCHEN



WARDROBE IS WELL-FURNISHED AT HIGH LEVEL THEREFORE CHILDREN WOULDN'T EASILY GET IT AND CAUSE ANY INVESTIGATION

## PROJECT 2

### DIY FLAT PACK CHAIR FINITURE DESIGN



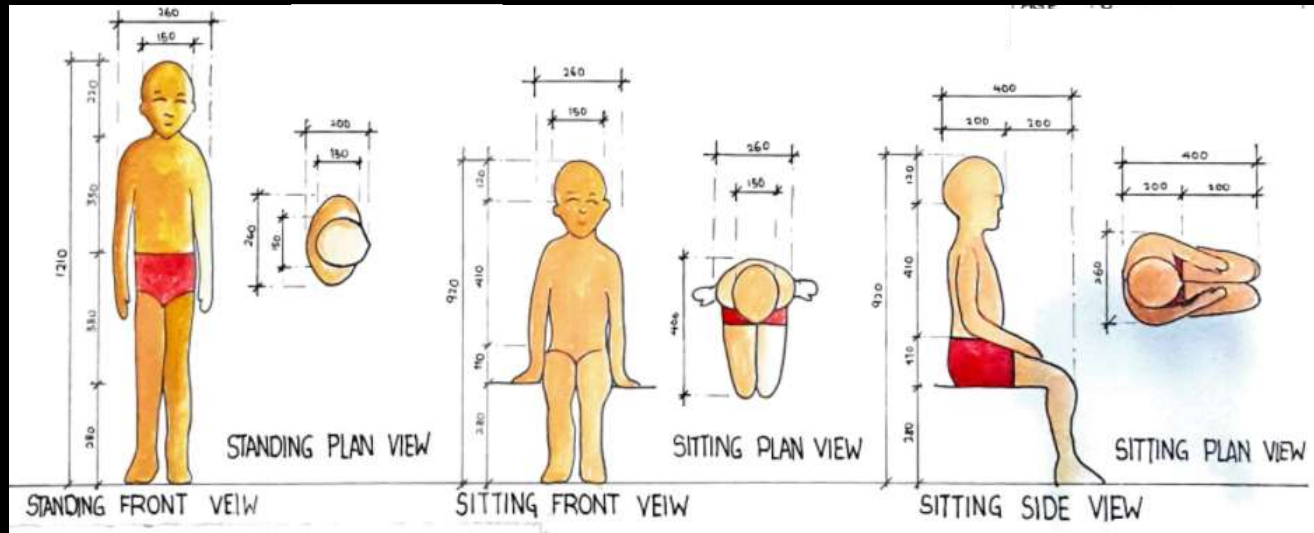
The ice breaking introduces the basic understanding of the anthropometry, ergonomic and materials understanding In relation to the design of Flat – Pack furniture

'is ready to assemble unit'. And also come with assembly instruction and necessary tools for you to put units together by yourself





# ANTHROPOMETRY ( SCALE 1:10 )



Data collected from a 66years old children

Name : Chloe Chung Jia Ern

Sex : Female

## PRECEDENT STUDIES

### Characteristic

- Set of flat elements join each other to create a structure
- Not water resistant

### Joinery

Interlocking

### Location

Living room



### Characteristic

- Light weight
- Easy to assemble

### Joinery

Slotting

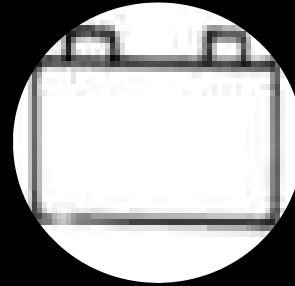
### Location

Living room





## CHARACTERISTIC



GEOMETRY



COLOURFUL



SYMMETRY

## DESIGN INTENTION

The design's sole intention is to dedicate what children like most. After a survey was constructed, I found out that children actually like building lego. However, lego is not just a form of kids plays. They are a colourful blocks of Architecture that extend the children's creativity in the fundamental basis. This sentence brings a strong statement towards Lego. Therefore, the intention is to have the characteristic of Lego in my chair design, and to be placed in a kindergarten's reading corner, therefore brightening up the area.



# MOCK UP MODELS



**Mock up 1**

- Adjustable backrest
- Layering
- Fails to support



**Mock up 2**

- Adjustable backrest and leg rest
- Layering
- Fails to support



**Mock up 3**

- Interlocking sitting platform
- Flat surface



**Mock up 4**

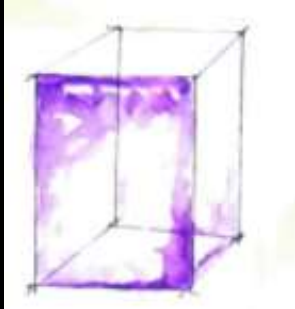
- Interlocking, slotting
- Strong interlocking base



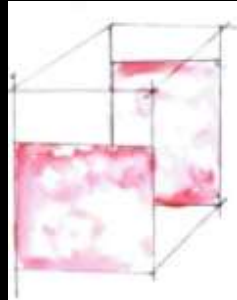
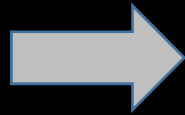
**Mock up 5**

- Easy to assemble
- Slotting

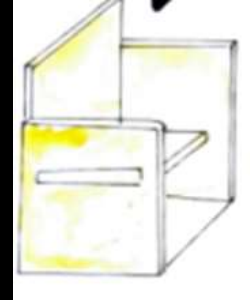
# DESIGN DEVELOPMENT



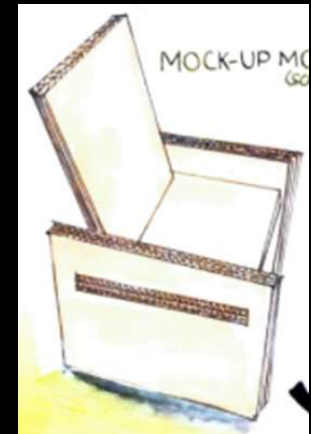
STARTED WITH SOME  
SKETCHING



SUBTRACTION



MOCK UP MODEL



MOCK UP MODEL  
DEVELOPMENT(SCALE 1:20)



PROTOTYPE TEST

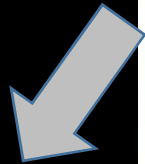


FINAL MODEL

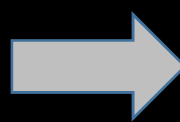
# PROTOTYPE TEST



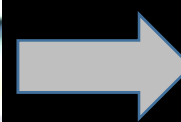
- 3 pieces of cardboard join together with white glue
- Fails to support sister weight



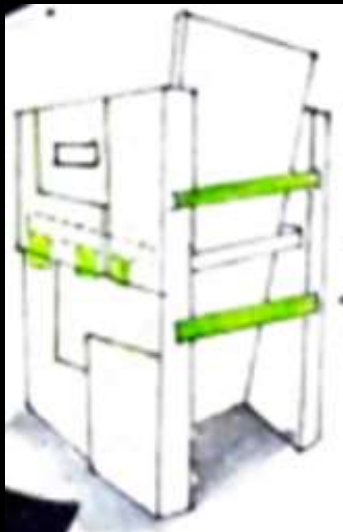
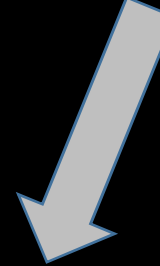
- Added cardboard in every part of the chair
- Feedback: sitting platform bend
- Fails to support



- Both side is cut to support the back rest
- Both panels push inward



- Interlocking batten added at base.
- Feedback :
- Disturb the leg
- Hard to carry because no handle



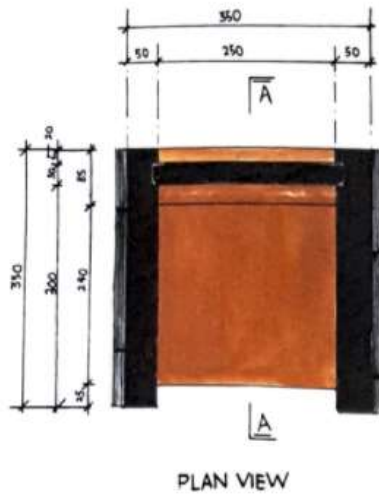
Interlocking added at the back to hold the whole structure



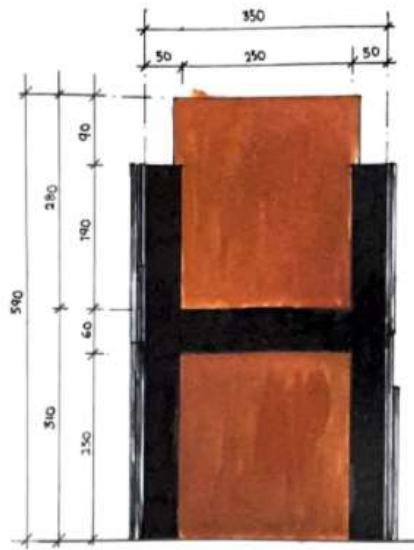
- Added few layers at the side panels to cover the protruding sitting platform
- Handles are added



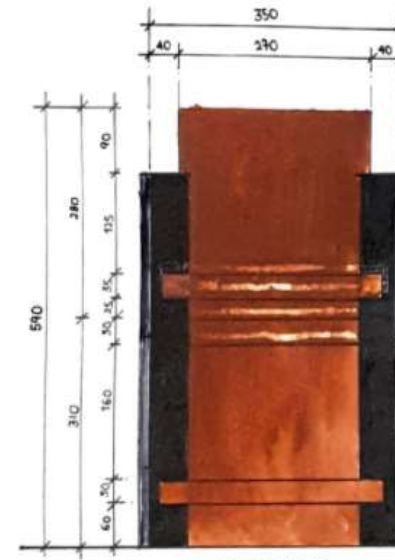
# ORTHOGRAPHIC DRAWINGS



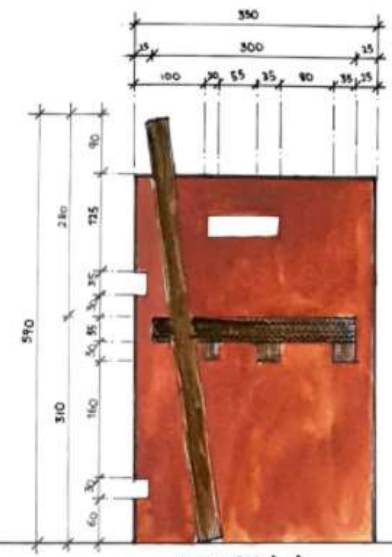
PLAN VIEW



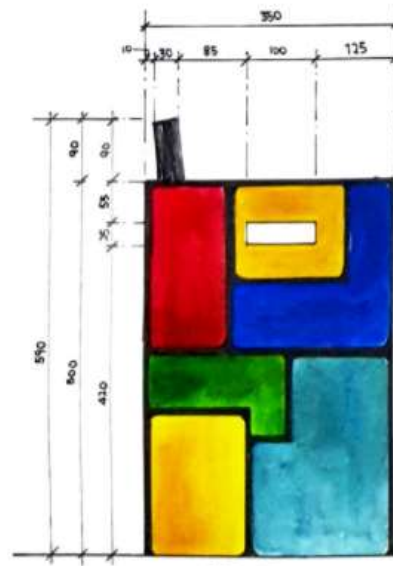
FRONT VIEW



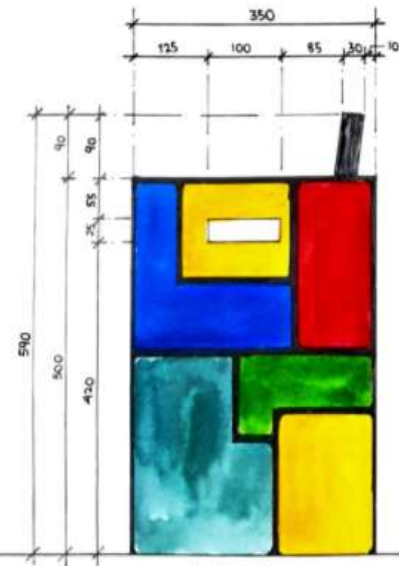
REAR VIEW



SECTION A-A

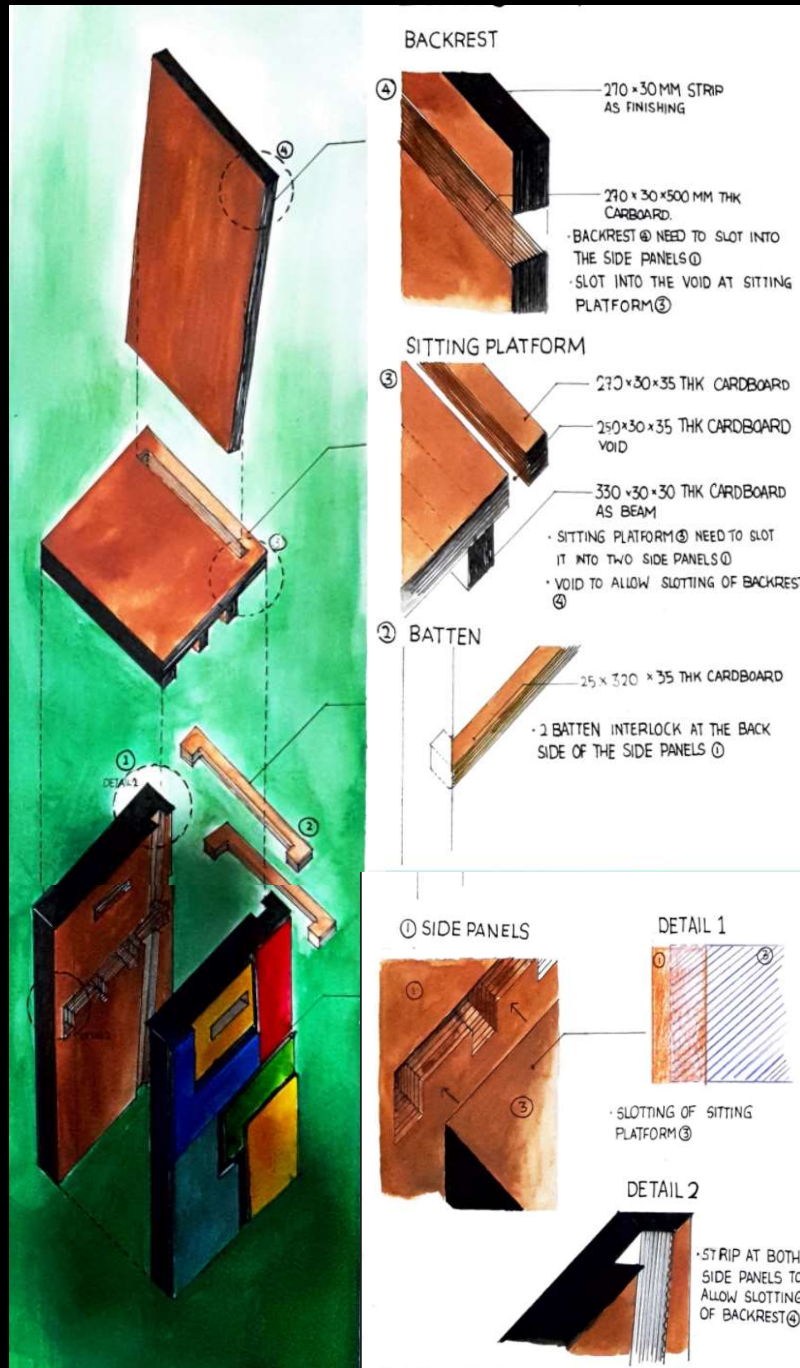


LEFT VIEW

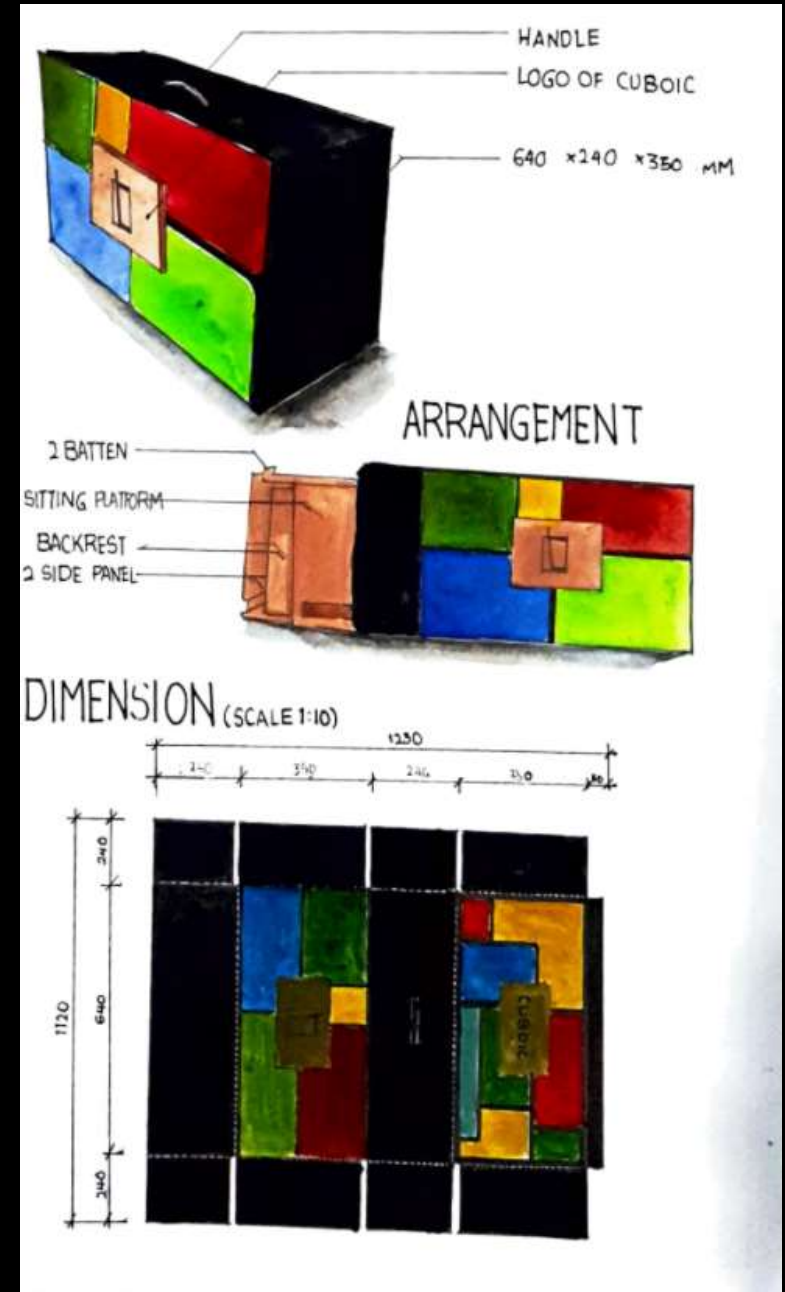


RIGHT VIEW

# AXONOMETRIC AND CONSTRUCTION DETAILS



# PACKAGING







# THE DOVE

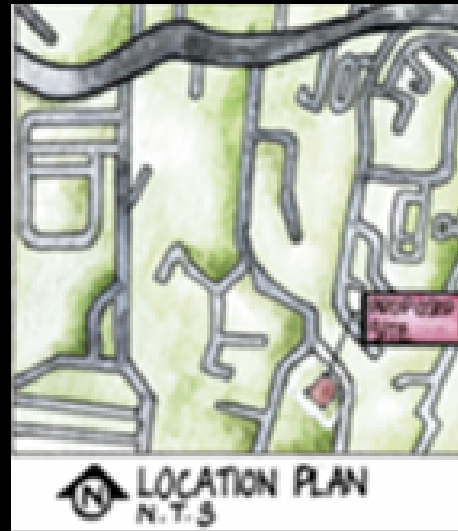
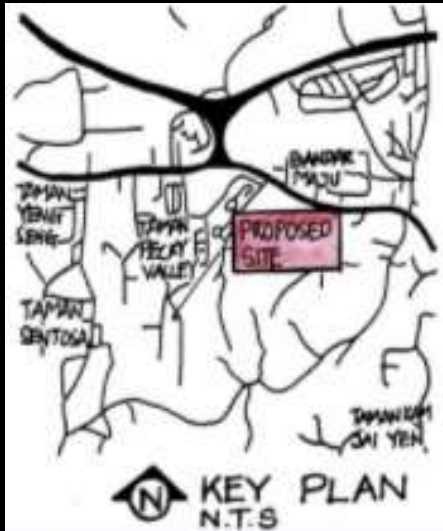
## PROJECT 3

### COMPACT LIVING ARTIST STUDIO

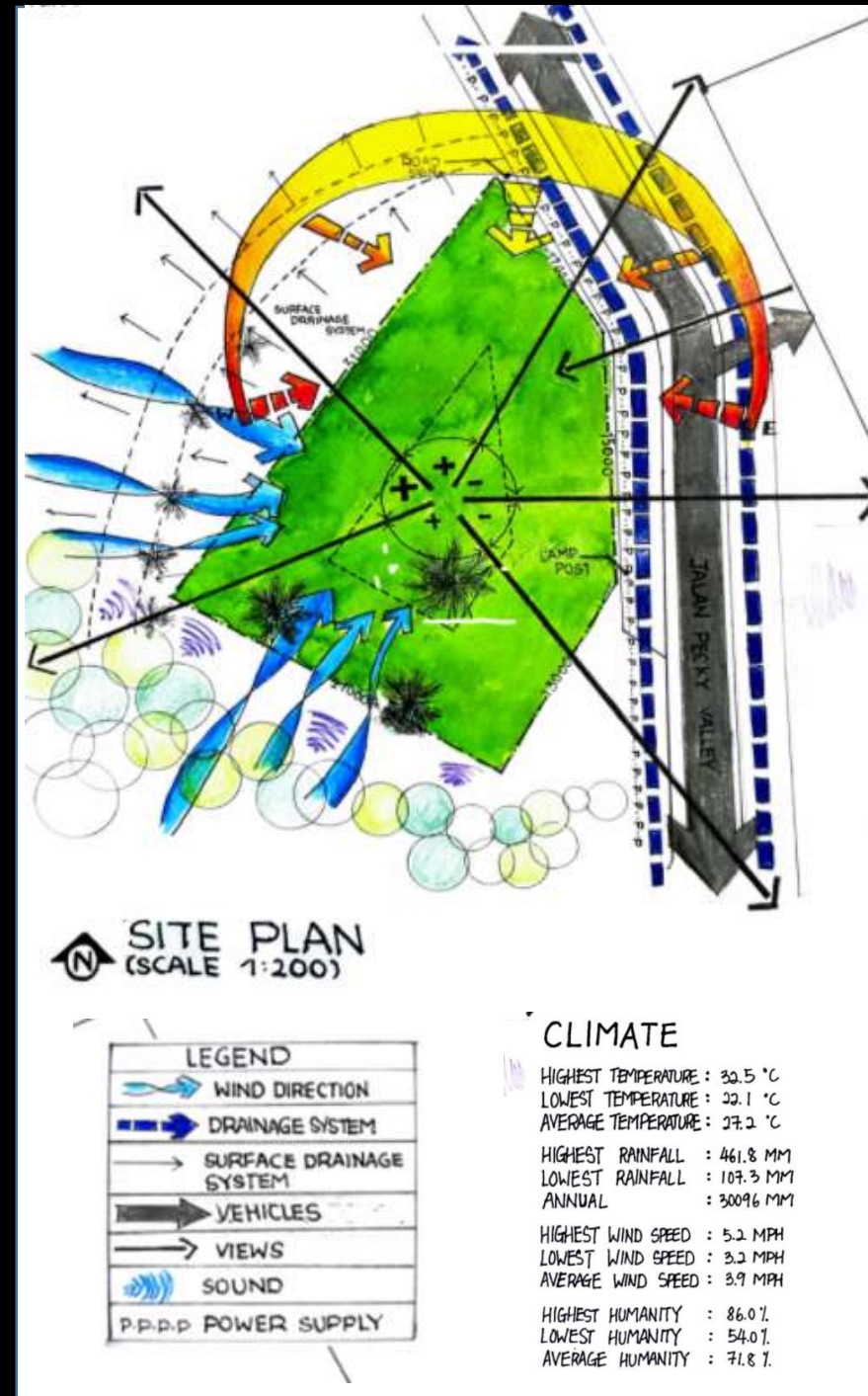
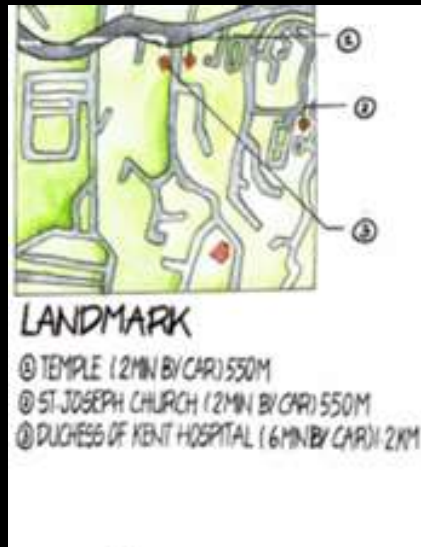
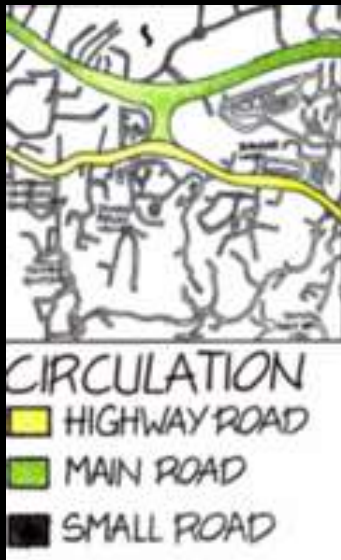
“Compact Living Artist Studio”. The studio acts like a space for the artist to get his/her inspiration and to do his/her artwork and live for a short term. This compact living artist studio is to be design for a single person occupancy using sustainable green materials. The built-up area for the artist studio is within (50 -100sq.m). Based on the given built up area, you need to identify a site that can be accessed by you to collect site analysis information. Once the site has been identified, you are required to design creative and functional living studio.



# STAGE 1 : SITE ANALYSIS



Location : Jalan pecky valley 6,90000, Sandakan, Sabah  
Area : 492.02 M2







NORTH-WEST VIEW



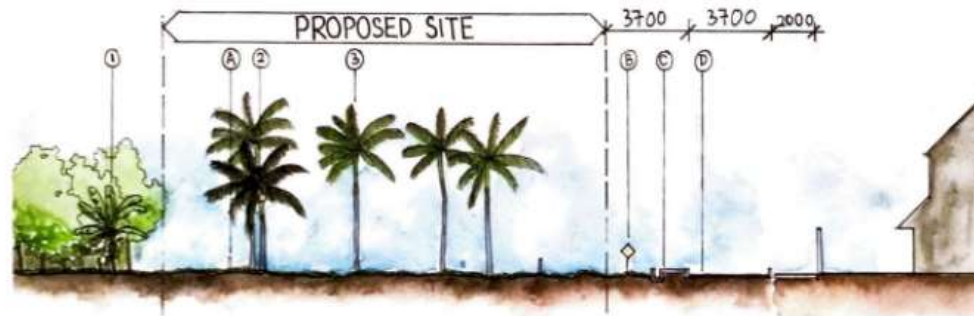
VIEW TOWARDS THE SIDE



EAST VIEW



SOUTH-EAST VIEW



- VEGETATION**
- ① BANANA TREE
  - ② COCONUT TREE
  - ③ ATTALEA SPECIOSA
- MANMADE**
- Ⓐ RUN-OFF PIPE
  - Ⓑ ROAD SIGN
  - Ⓒ DRAINAGE SYSTEM
  - Ⓓ VEHICLE PATH

- VEGETATION**
- ① ATTALEA SPECIOSA
  - ② SHRUBS
  - ③ COCONUT TREE
- MANMADE**
- Ⓐ VEHICLE PATH
  - Ⓑ DRAINAGE SYSTEM
  - Ⓒ LAMP POST

**S**

- GOOD VIEW
- MORE GREENERIES
- LESS POLLUTION
- LOW RISK OF FLOODING
- LESS VEHICLE AND HUMAN TRAFFIC

STRENGTH

**W**

- NOT WELL SHADED
- EXPOSED TO DIRECT SUNLIGHT
- PROPOSED SITE IS FAR AWAY FROM THE BUS STATION

WEAKNESS

**O**

- ALLOW MORE OPPORTUNITIES FOR EXPANSION OF PROPERTY
- NEARBY COMMERCIAL AREA COULD BE DEVELOPED IN FUTURE

OPPORTUNITY

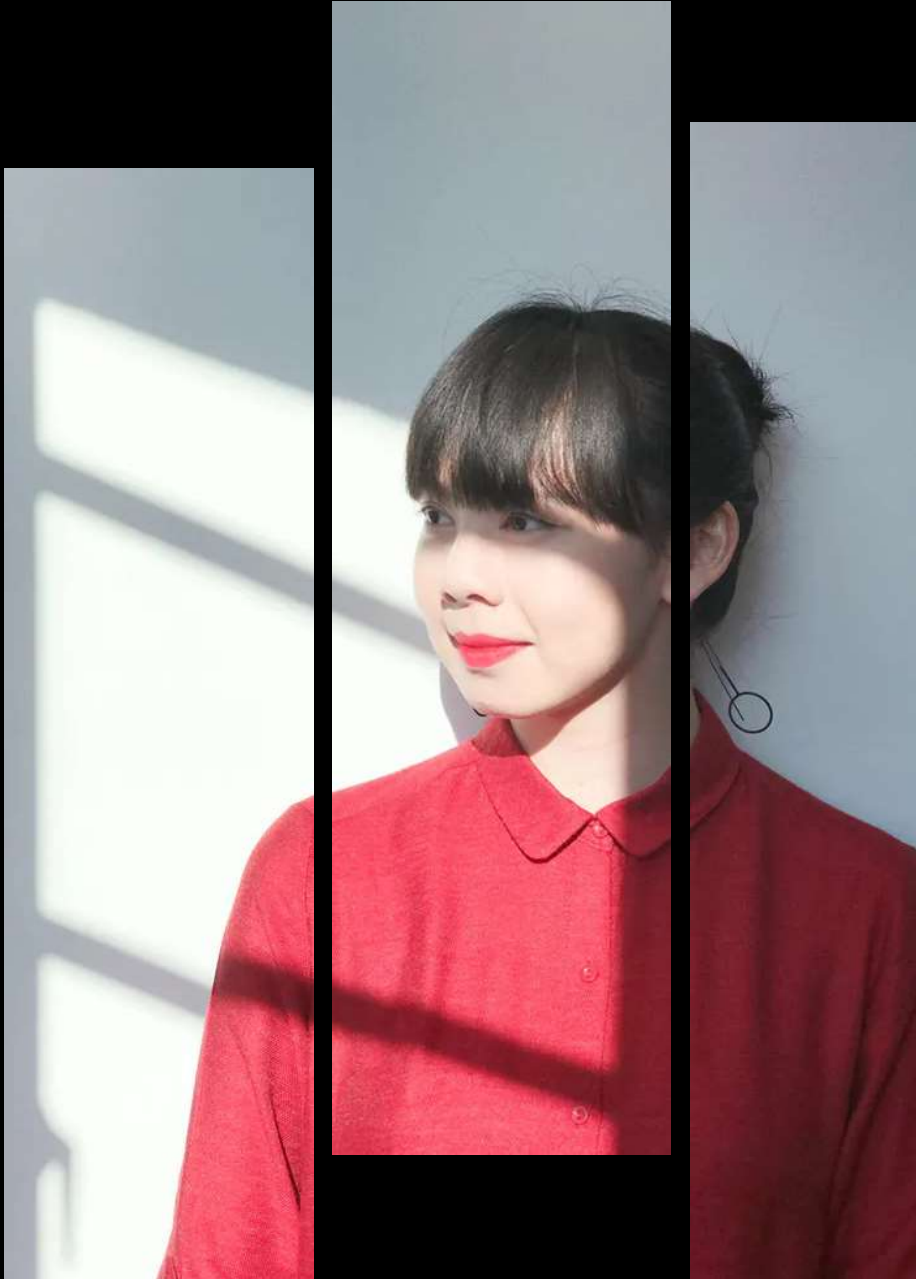
**T**

- SAFETY AND SECURITY PROBLEM (FARAWAY FROM POLICE STATION)
- HUNT OF WILD ANIMALS FROM FOREST

TREAT



# STAGE 1 : PRECEDENT STUDY (ARTIST)



## BIOGRAPHY

NAME : PAMELA TAN  
POH SIN  
OCCUPATION : ARCHITECTURAL,  
DESIGN EXPLORES  
VARIOUS FIELD  
IN ART, DESIGN  
ARCHITECTURE  
QUALIFICATION : GRADUATED  
BACHELOR OF  
ARCHITECTURE  
FROM TAYLOR'S  
UNIVERSITY AND  
MASTER OF  
ARCHITECTURE  
FROM UNIVERSITY  
OF GREENWICH.

## MATERIALS



METAL



COTTON THREAD



CRYSTAL BALL

## STYLE

- EXPRESSING FORMS AND ELEMENTS THAT REVEAL WHAT WAS HIDDEN OR UNNOTICED
- SOMETIMES IT REVEALS MOVEMENT AND STRENGTH LINEARITY AND SIMPLICITY OF SINGULAR LINE ITSELF ENABLE HER TO HIGHLIGHT AND OUTLINE A CERTAIN PARTICULAR PATTERN OR DISTINCT NETWORK OF THE SUBJECT AND FORM.
- IN A LYRICAL MANNER, THUS HER PREFERENCE OF CURVES
- PORTRAYING COMPLICATION OF MOVEMENT BY VISUALS THROUGH THE REPETITIVE SIMPLICITY OF ELEMENTS.
- IMMERSIVE COLOURFUL AND SPECULAR SPACE BY USING COLOURED ROPES.

## INSPIRATION

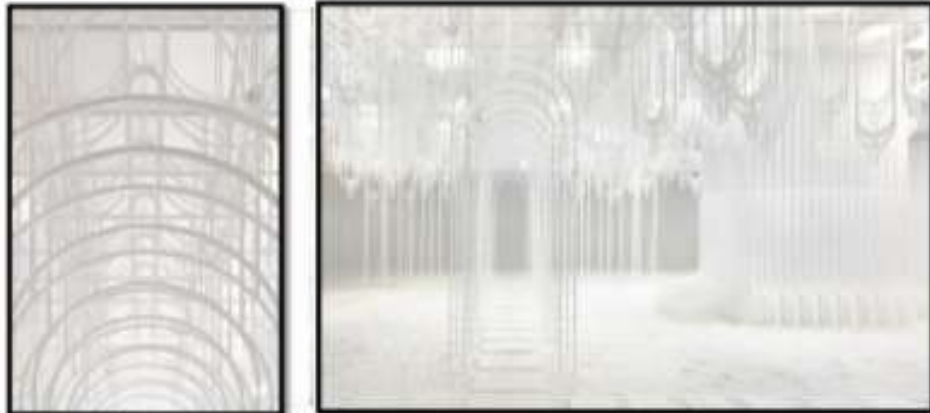
- INSPIRED BY NATURAL BEAUTY AND IMAGINARY IDEAL NATURAL FANTASY

## PROJECTION KITE



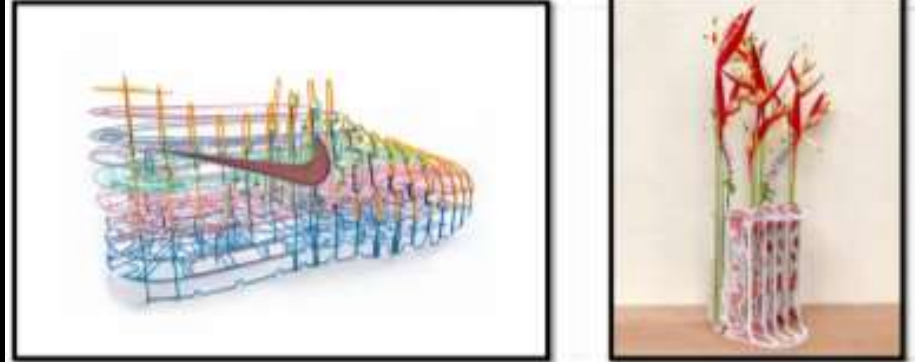
THIS INSTALLATION FLOATING IN THE SKY SYMBOLIZES LIFE AND CELEBRATION IT WAS ALSO CREATED FOR THE "GOOD VIBES FESTIVAL" IN MALAYSIA. LOOSE STRINGS THAT REACTED TO THE VIBRATION OF THE MUSIC AND THE WIND PERFECTLY SUIT THE EVENT.

## EDEN



'EDEN' BLURS THE BOUNDARIES BETWEEN MAN-MADE WONDERS AND THE BEAUTY OF NATURE, PROVIDING VISITORS WITH A REFUGE AWAY FROM THE HUSTLE AND BUSTLE OF DAILY LIFE AS A SPACE OF SOLACE AND CONTEMPLATION

## FOOTPRINT AND VASE



MOST OF HER WORK OFTEN HAS TO DO WITH EXPRESSING STRENGTH, MOVEMENT, AND PATTERN IN THE MOST DELICATE MANNER. IN THIS PROJECT, SHE WAS KEEN ON THE IDEA OF ARCHITECTURE AND DESIGN FROM BARE BONES.

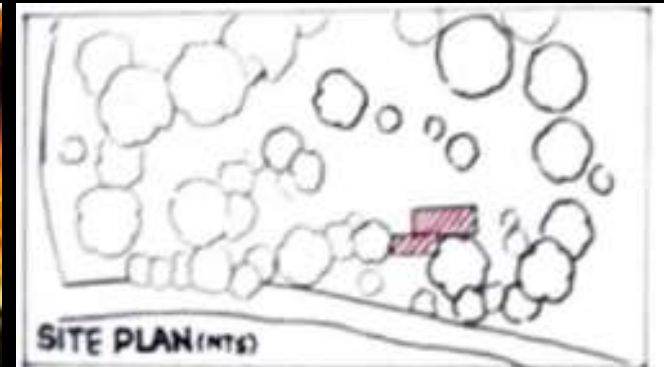
## DOME OF DISAPPEARANCE



HAS A THREEFOLD PURPOSE: AS A COLUMBARIUM, A QUIET ARCHIVE OF THE CITY'S MEMORIES AND SITES THAT HAVE BEEN ERASED OVER TIME, AS A SAFE HOUSE, FOR SHARING AND COMMUNITY-BUILDING, AS A RESPONSE, DISRUPTING COMMON CULTURAL AESTHETICS AND PERCEPTION IN HOPES OF FOSTERING MEANINGFUL DIALOGUES.



# STAGE 2 : PRECEDENT STUDY LIVING CAPSULE



SITE PLAN (INTS)

LOCATION: SPRINGFIELD ILLINOIS,  
UNITED STATES

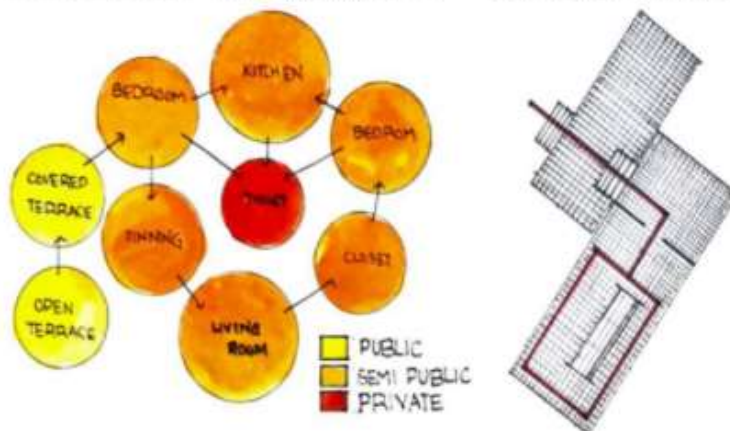
AREA: 140 SQM

THE BUILDING HAS ONLY ONE ROOM,  
CONSTRUCTED OF GLASS AND STEEL  
WITH A VERY SIMPLE SHAPE.

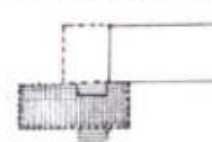


ARCHITECT: LUDWIG  
MIES VAN  
DER ROHE  
BORN: MARCH 27, 1886

## BUBBLE DIAGRAM CIRCULATION



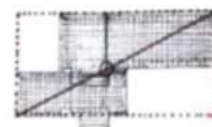
## DESIGN PRINCIPLE



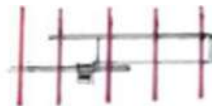
HIERARCHY



ADDITIVE AND  
SUBTRACTIVE



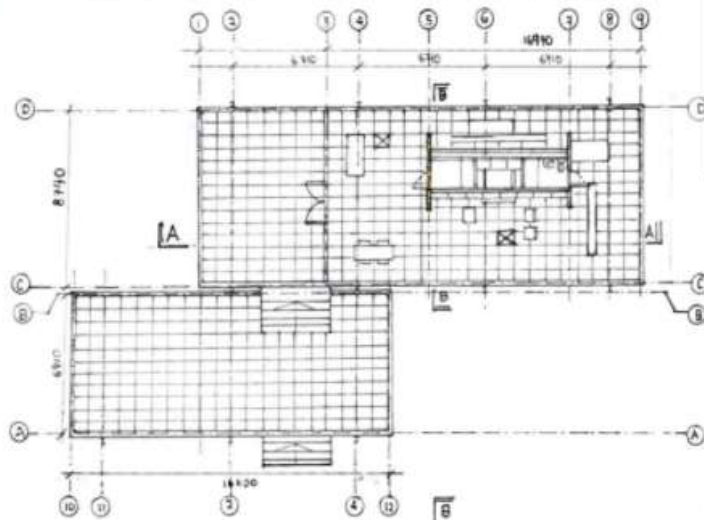
GEOMETRY



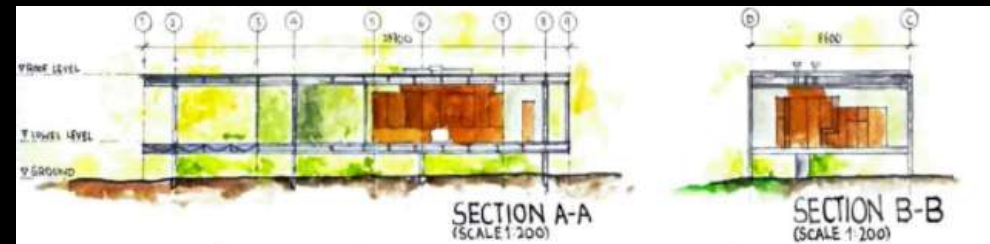
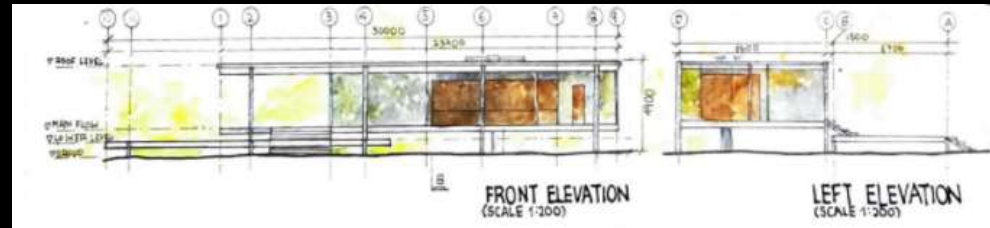
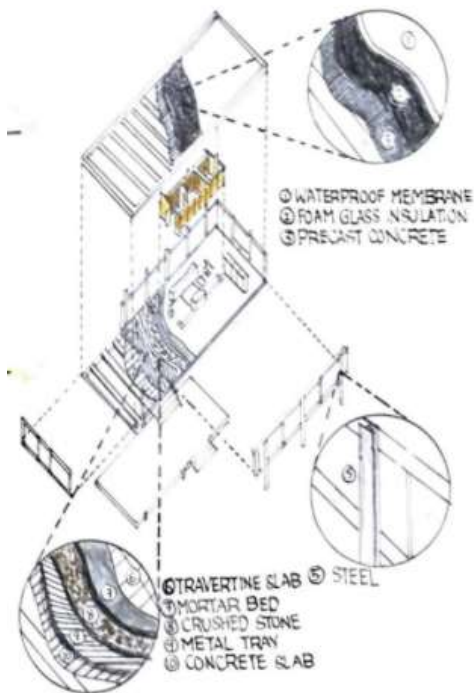
REPETITION



# ORTHORGRAPHIC DRAWING



## CONSTRUCTION MATERIALS



## DESIGN FEATURES



### ELEVATED BASE PLANE

A HORIZONTAL PLANE ELEVATED ABOVE THE GROUND PLANE ESTABLISH VERTICAL SURFACE ALONG ITS EDGES THAT REINFORCE THE VISUAL SEPERATION.

### WINDOW WALL OPENING

TOP TO BOTTOM TO ENLARGE AND MAXIMISE THE VIEW TO THE NATURAL

### THE CORE

THE INTERIOR OF THE HOUSE IS DISRUPTED ONLY BY THE CORE OF BLOCK CONSTRUCTED PRIMARILY OF PRIMAVERA PLYWOOD

KITCHEN, TOILET AND FIRE PLACE

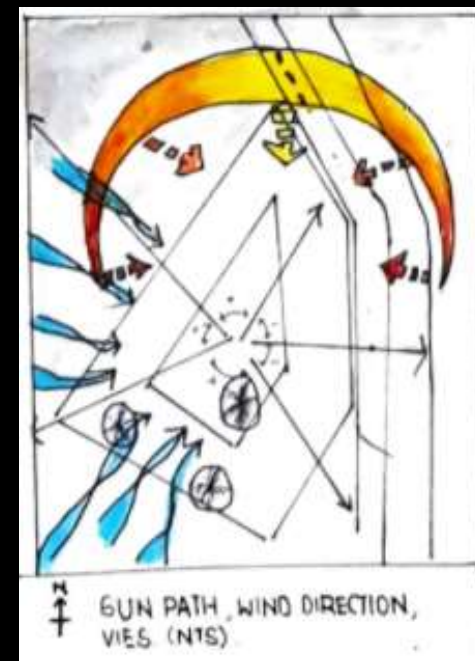
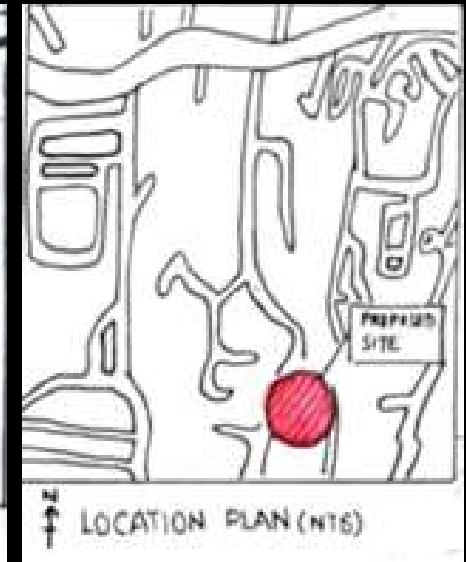
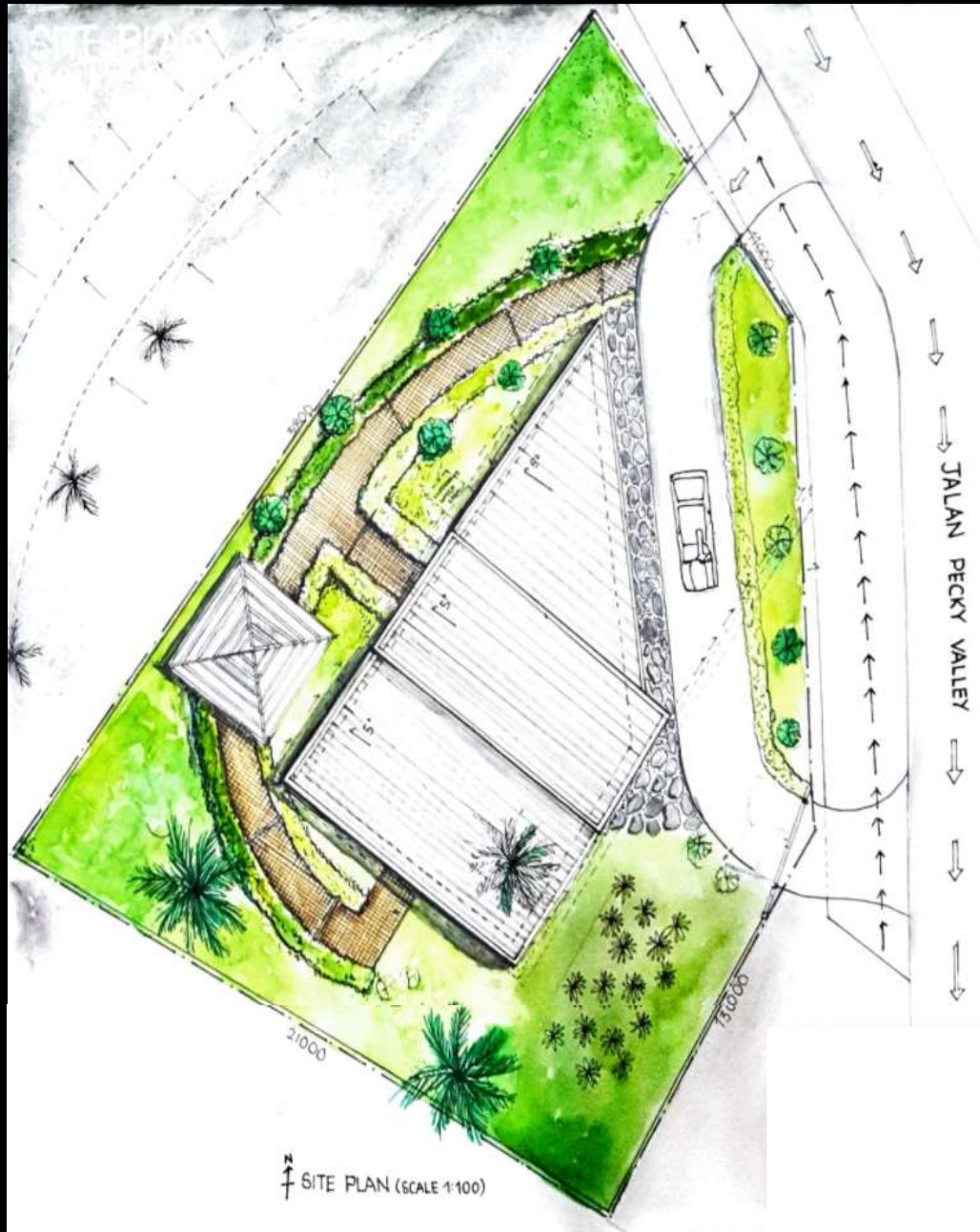


# STAGE 2:COMPACT LIVING ARTIST STUDIO



The concept is reflecting the style of the artist in exploring movement, strength linearity and simplicity of a singular line and forms. The idea of freedom gives an hint of living freely and peacefully as well as relaxing. Also, the concept of simplicity and minimalism are also presented in white appearance, hinting a sense of blank space which allows visitors and public to portray their imagination and creativity onto the white facades. It also allows a connection with the beauty of nature and to maximize the spaces visuals in the living capsule.





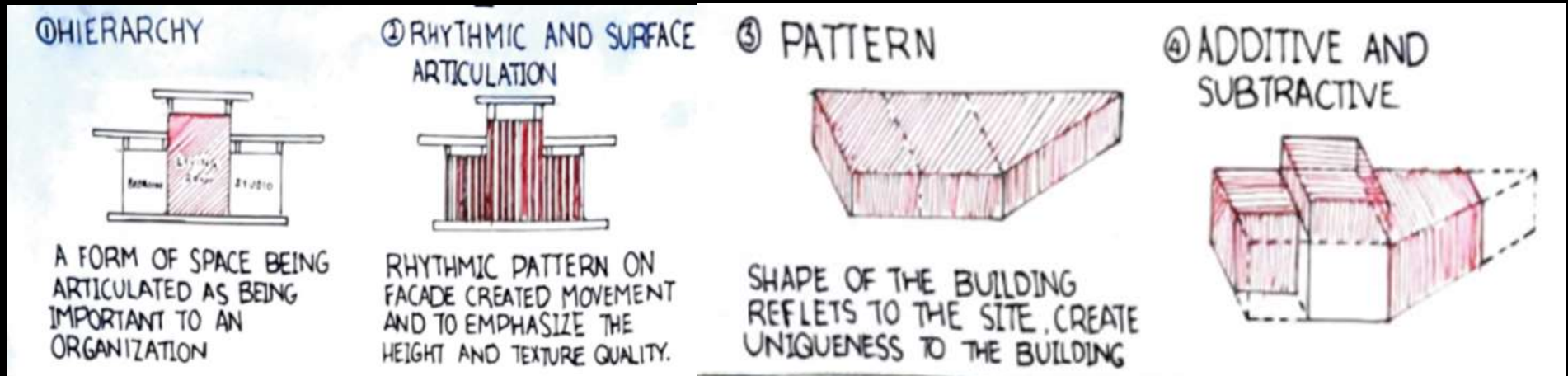


# DESIGN INTENTION

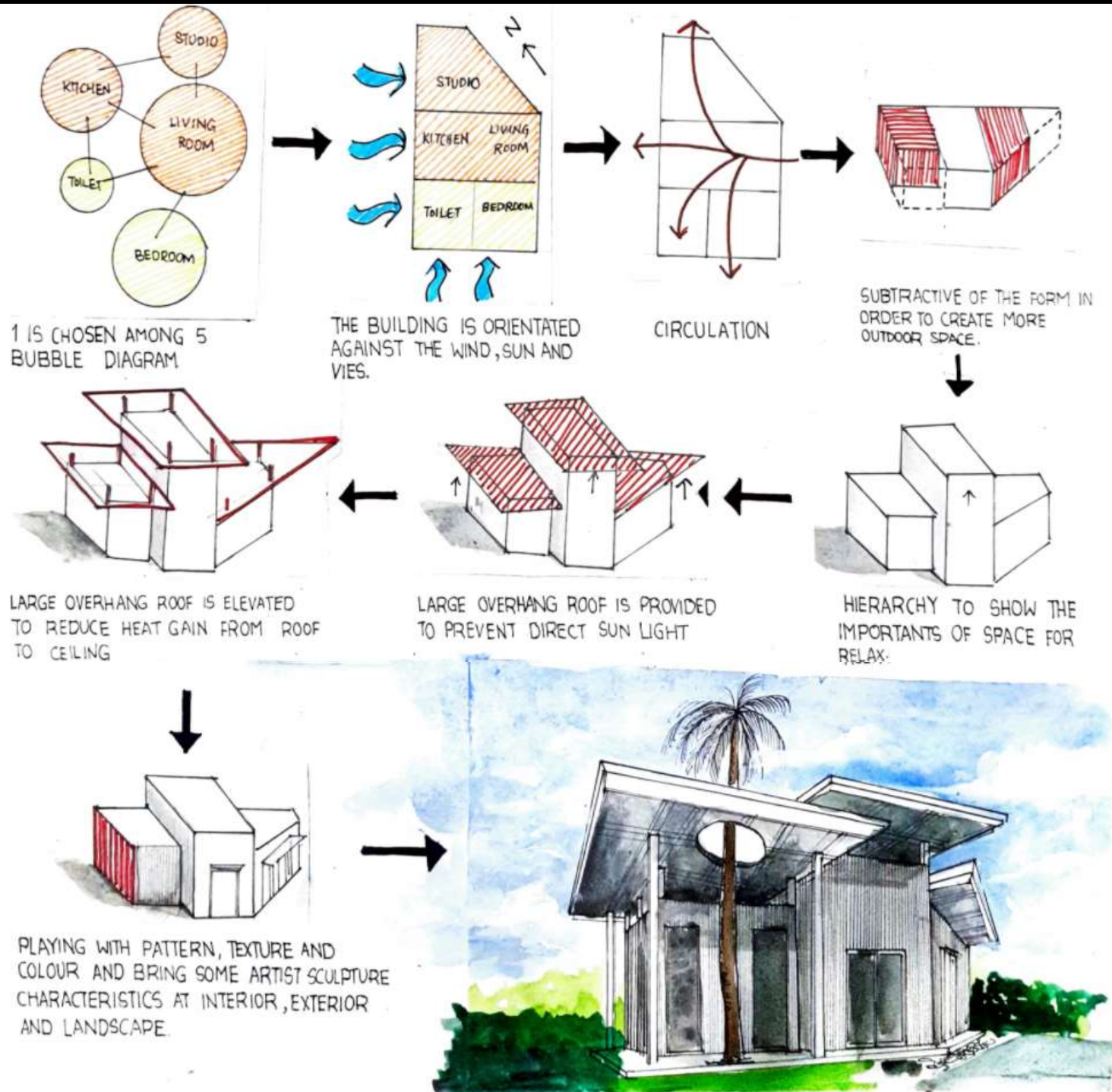
My design intention is to gain exposure and attraction of the public towards the living capsule of my artist with harmonic scenery. The living capsule is designed for the artist to portray her artworks as well as to gather people with same interests in arts and cats. The intended interaction can be part of continuous contributions and sources to trigger the artist's creativity and inspiration in portraying her new artworks. Furthermore, the artist wish to feel and be part of the nature while she is in her own time, so a pergola is also proposed for her yoga and meditation practices during her free time.



# DESIGN PRINCIPLE



# DESIGN PROCESS





# FLOOR PLAN (SCALE 1:50)



## AREA CALCULATION

SPACE	AREA
LIVING ROOM AND KITCHEN	15.46
STUDIO	14.66
TOILET	4.88
BEDROOM	8.13
DECKING	18.24

TOTAL BUILD UP  
AREA = 61.37 m<sup>2</sup>



The image displays two architectural sections of a building, labeled SECTION A-A and SECTION B-B, both at a scale of 1:50. The drawings are hand-drawn with colored washes for sky and vegetation.

**SECTION A-A (SCALE 1:50)** shows a cross-section of the building. Key features and annotations include:

- Dimensions:** 12' 24" CEILING LEVEL, 9' 24" CEILING LEVEL, 4' 30" (height), 5' 00" (width), 1' 00" (width), 1' 00" (width).
- Rooms:** WC (Toilet), Kitchen area with a sink and stove, and a living area with a sofa and large windows.
- Roofing:** 150MM THK TIMBER BEAM, 5" STEEL ROOFING.
- Flooring:** MOSAIC TILES FLOOR FINISHING, 300MM THK CONCRETE SLAB.
- Other:** GUTTER, WATER PIPE.

**SECTION B-B (SCALE 1:50)** shows another cross-section of the building. Key features and annotations include:

- Dimensions:** 50x50 TIMBER BATTEN, 50MM THK CEMENT RENDER, 150MM THK BRICK WALL.
- Structure:** 50MM THK CEMENT RENDER, 150MM THK BRICK WALL.
- Other:** ALUMINIUM CLICK ON FRAME.



# ELEVATION



# DESIGN FEATURE

## ① LARGE ELEVATED ROOF (PASSIVE COOLING STRATEGY)



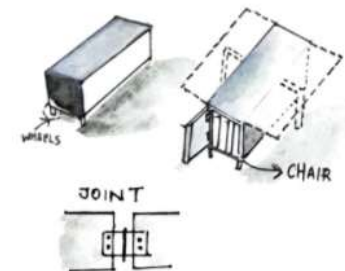
THIS CAPSULE HAS A LARGE OVERHANG WHICH TO TAKE ADVANTAGE OF PREDOMINANT WINDS FOR COOLING AND PROTECT FROM SUN AND RAIN, CREATING COMFORT WITHOUT USING ENERGY

## ② RAINWATER HARVESTING



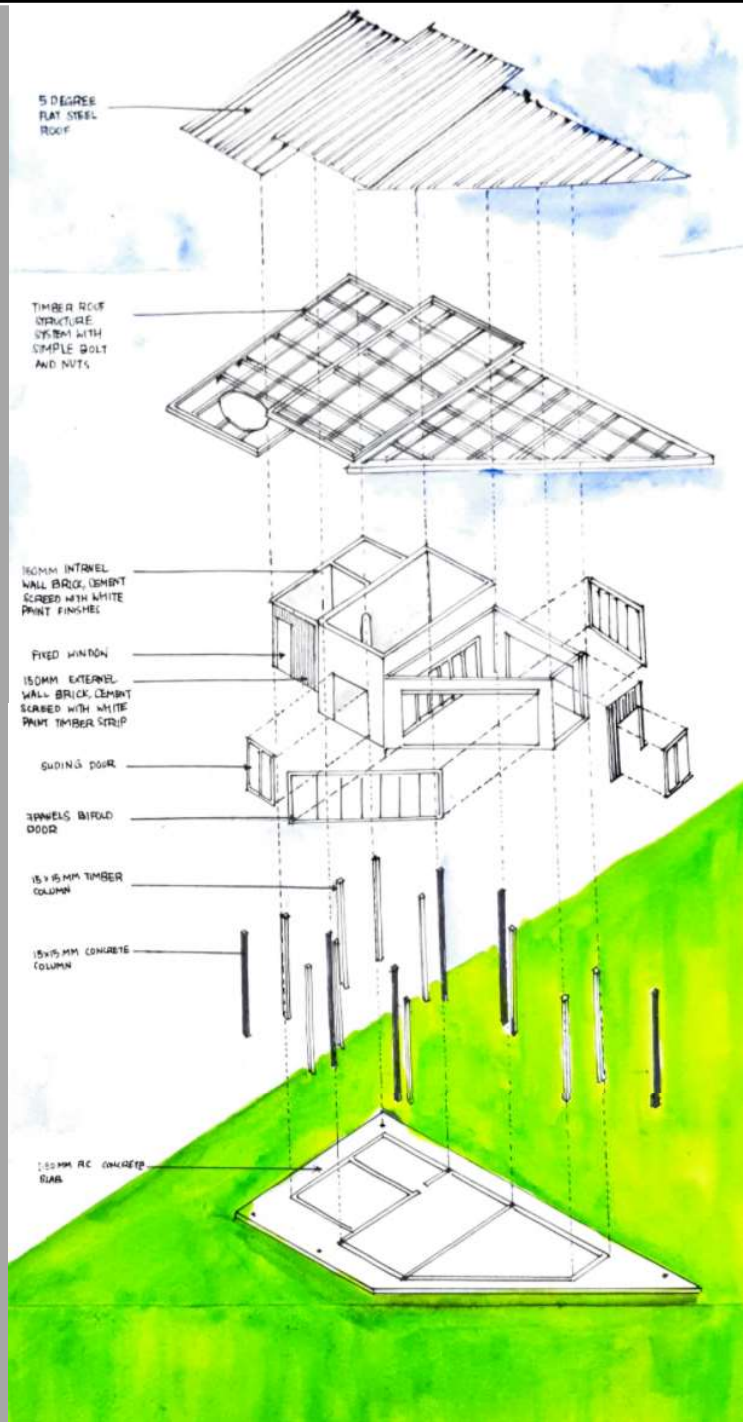
DIVERTING RAINWATER RUNOFF INTO A WATER STORAGE TANK ALLOWS US TO CONTROL WATER DISTRIBUTION. ITS PROVIDE GREATER ON-DEMAND IRRIGATION, SUSTAINABILITY AND RECYCLING

## ③ MODULAR TABLE

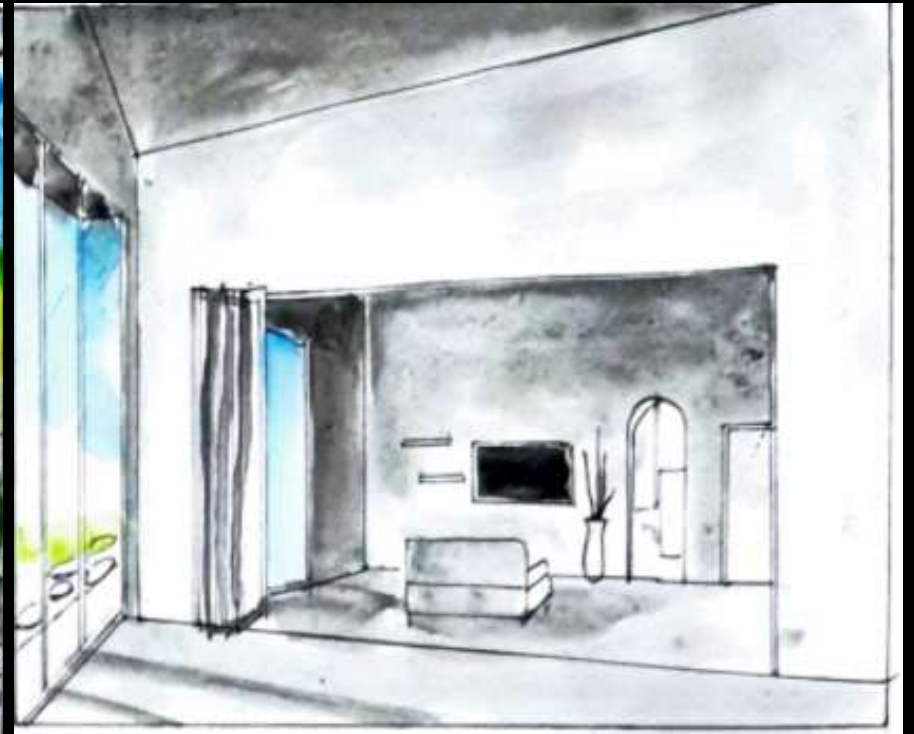


MODULAR KITCHEN TABLE WHICH CAN ACCOMMODATE MORE THAN TWO PERSON, SPACE SAVING AND EASY TO MOVE

# EXONOMETRIC DRAWING





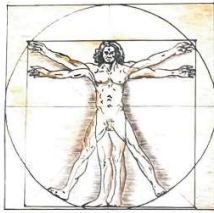




# APPENDIX

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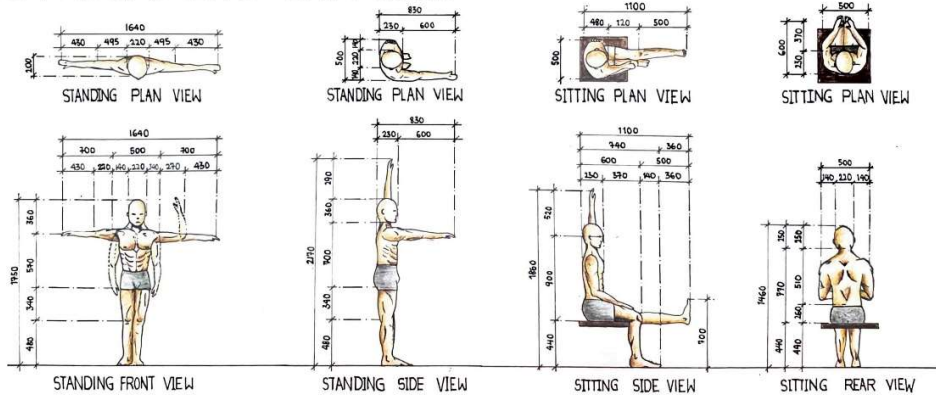




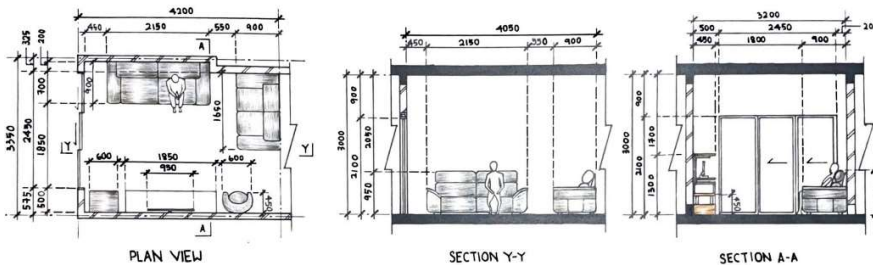
# PROJECT 01 ANTHROPOMETRY & ERGONOMIC STUDIES INTRODUCTION

ANTHROPOMETRY IS THE STUDY OF HUMAN BODY MEASUREMENT. IT IS USED TO UNDERSTAND PHYSICAL VARIATIONS AMONG HUMANS AND PROVIDE A KIND OF BASELINE FOR HUMAN MEASUREMENT. WHILE ERGONOMIC IS THE STUDY OF PEOPLE EFFICIENCY IN BUILT ENVIRONMENT. HENCE, ANTHROPOMETRY IN ERGONOMIC DESIGN SEEKS TO CREATE THE MOST EFFICIENT WORKPLACE WHILE PROVIDING COMFORT FOR PEOPLE LIVING WITHIN IT.

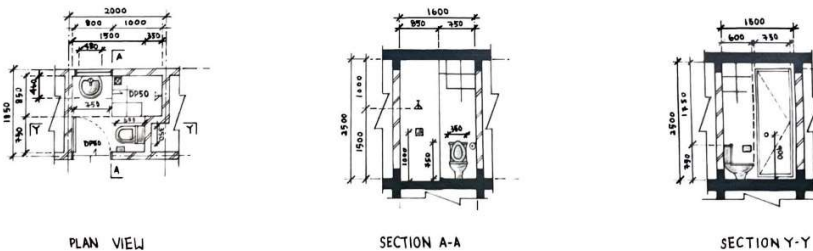
## ANTHROPOMETRY DATA SCALE 1:25



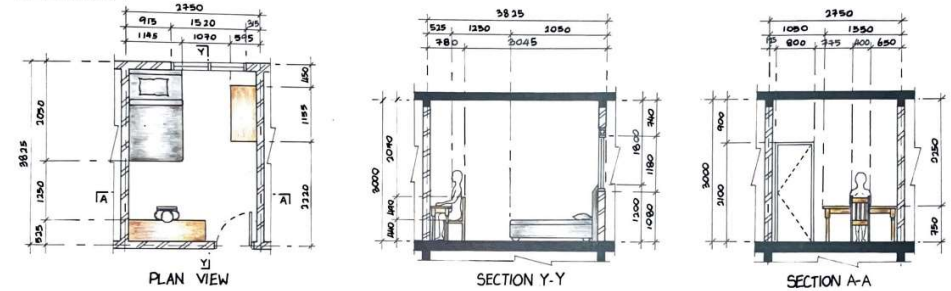
## SPACE ERGONOMICS SCALE 1:50 LIVING ROOM



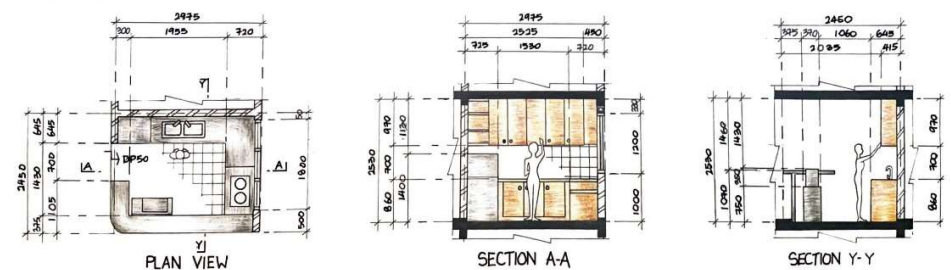
### BATHROOM



## SPACE ERGONOMICS SCALE 1:50 BEDROOM

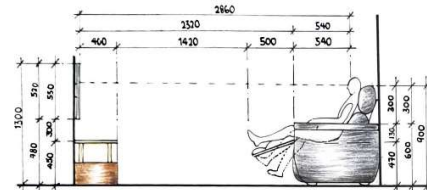


### KITCHEN



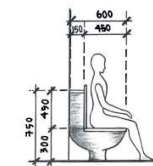
## SPECIAL DETAILS: HUMAN WITH FURNITURE SCALE 1:25

### LIVING ROOM



THE SOFA IS ADJUSTABLE TO PROVIDE A COMFORT SITTING POSITION. THE EYESIGHT AND DISTANCE BETWEEN SOFA AND TELEVISION IS COMFORTABLE.

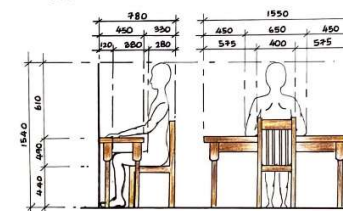
### BATHROOM



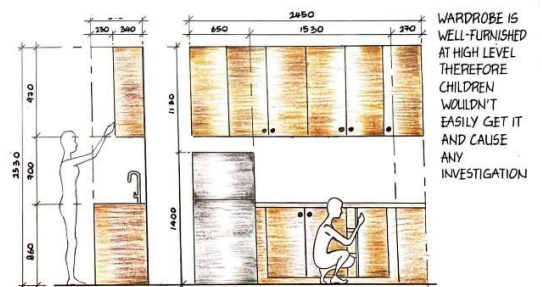
A PROBLEM ABOUT THE TOILET BOWL IS THE SIZE OF IT. IT IS A BIT SMALL FOR PEOPLE WITH LARGE DIMENSION. THEIR LEG WILL HAVE TO BEND MORE INWARDS OR OUTWARDS COMPARE TO A SMALLER SIZE PERSON.

### BEDROOM

CHAIR AND STUDY TABLE ARE NOT SUITABLE FOR TEENAGE AND ADULT AGE BECAUSE IS VERY SMALL AND UNCOMFORTABLE AND IN LONG TERM WILL CAUSE PAINFUL TO NECK AND SPINAL.



### KITCHEN



WARDROBE IS WELL-FURNISHED AT HIGH LEVEL THEREFORE CHILDREN WOULDN'T EASILY GET IT AND CAUSE ANY INVESTIGATION

CHONG JUN KIT 19WVD02503 YAP FOON YI 19WVD03363 KHOO CHI EN 19WVD03425 LIEW MEI HANG 19WVD05513



## PROJECT 2 :DIY FLAT-PACK FURNITURE FOR KIDS

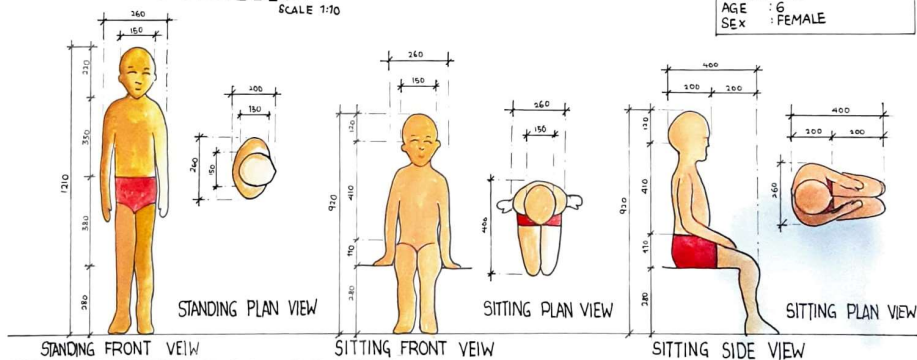


### INTRODUCTION

THE ICE BREAKING DESIGN PROJECT INTRODUCES THE BASIC UNDERSTANDING OF THE ANTHROPOMETRICS, ERGONOMIC AND MATERIALS UNDERSTANDING IN RELATION TO THE DESIGN OF FLAT-PACK DIY FURNITURE". FLAT-PACK FURNITURE IS READY TO ASSEMBLE UNITS" AND ALSO COME WITH KNOCKDOWNS PACKAGE BOXES THEY COME WITH ASSEMBLY INSTRUCTIONS AND NECESSARY TOOLS, FOR YOU TO PUT UNITS TOGETHER"BY YOURSELF".FLAT PACK IS MANUFACTURED IN FLAT PARTS SO ASSEMBLY CAN BE HANDLED AFTER THE PURCHASE.

### ANTHROPOMETRY

SCALE 1:10



### PRECEDENT STUDIES

#### PRESIDENT STUDY 1



**CHARACTERISTIC**  
• SET OF FLAT ELEMENTS JOIN EACH OTHER TO CREATE A STRUCTURE.  
• NOT WATER RESISTANT.  
**JOINERY**  
• INTERLOCKING SPACE  
• LIVING ROOM.

#### PRESIDENT STUDY 2



**CHARACTERISTIC**  
• LIGHT WEIGHT  
• EASY TO ASSEMBLE  
**JOINERY**  
• SPACE  
• LIVING ROOM.

CHUNG JUN KIT (19WVD02503)

## DESIGN INTENTION

THE DESIGN'S SOLE INTENTION IS TO DEDICATE WHAT CHILDREN LIKE MOST. AFTER A SURVEY WAS CONSTRUCTED, I FOUND OUT THAT CHILDREN ACTUALLY LIKE BUILDING LEGO. HOWEVER, LEGO IS NOT JUST A FORM OF KID'S PLAY. THEY ARE THE COLOURFUL BLOCKS OF ARCHITECTURE THAT EXTENDS THE CHILDREN'S CREATIVITY IN THE FUNDAMENTAL BASIS. THIS SENTENCE BRINGS A STRONG STATEMENT TOWARDS LEGO. THEREFORE, THE INTENTION IS TO HAVE THE CHARACTERISTICS OF LEGO IN MY CHAIR DESIGN, AND TO BE PLACED IN A KINDERGARTEN'S READING CORNER, THEREFORE BRIGHTENING UP THE PLAY AREA.

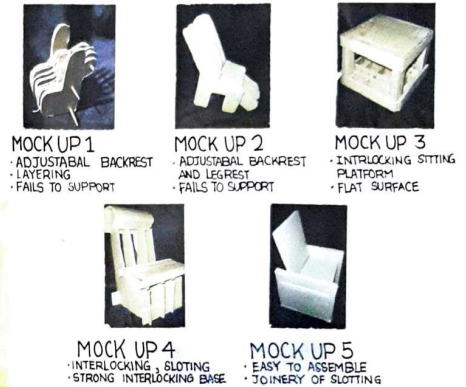
## CHARACTERISTIC



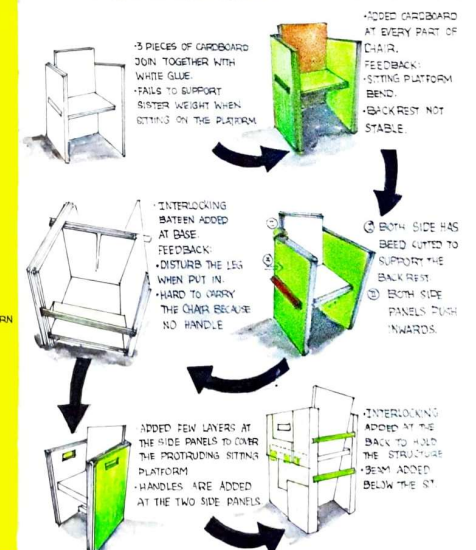
## DESIGN DEVELOPMENT



## MOCK UP MODELS



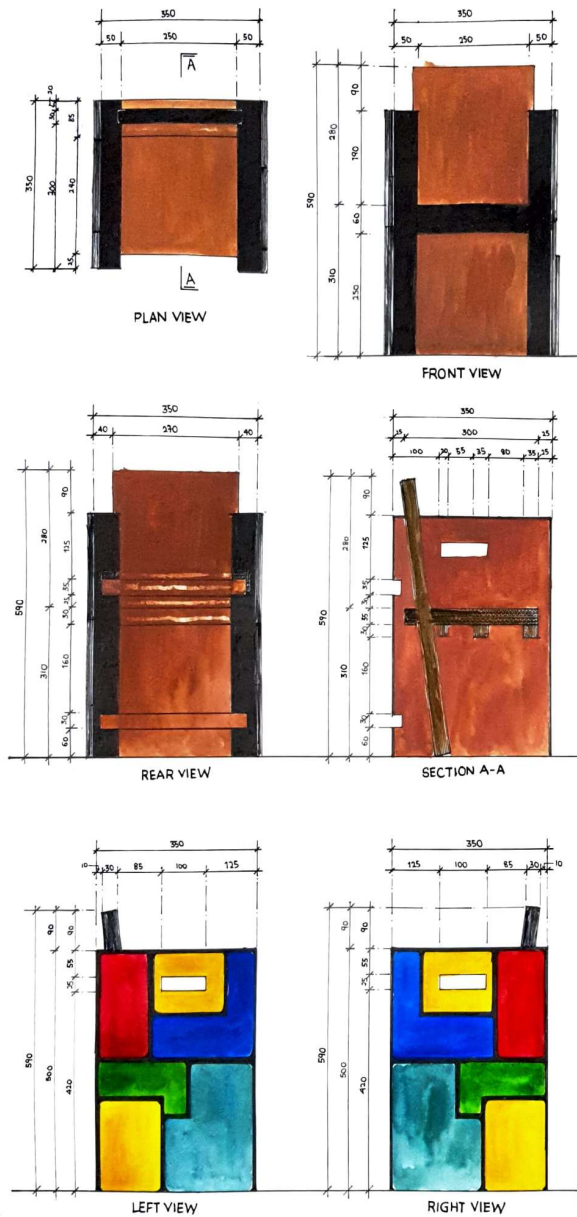
## PROTOTYPE TEST



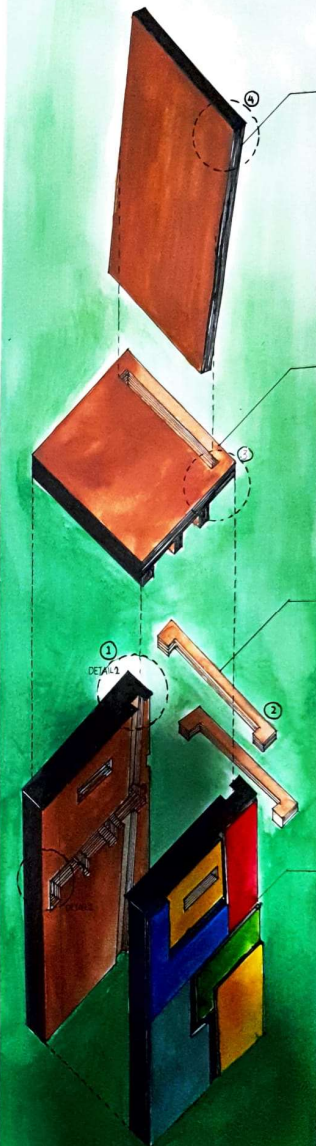
CHUNG JUN KIT (19WVD02503)



## ORTHOGRAPHIC DRAWINGS (SCALE 1:5)



## AXONOMETRY (SCALE 1:5)

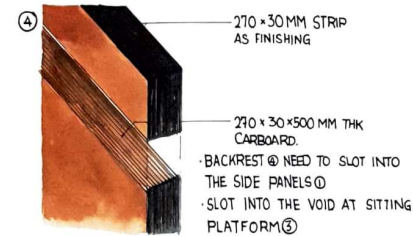


CONSTRUCTION SEQUENCE

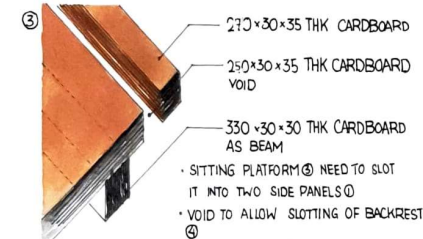
① → ③ → ④ → ②

## CONSTRUCTION DETAILS (SCALE 1:2)

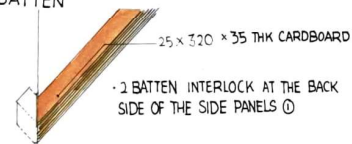
### BACKREST



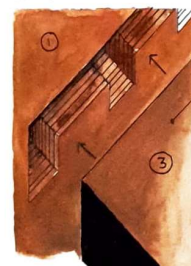
### SITTING PLATFORM



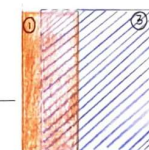
### BATTEN



### ① SIDE PANELS



### DETAIL 1



· SLOTTING OF SITTING PLATFORM ③

### DETAIL 2

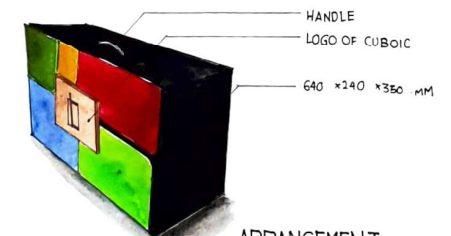


· STRIP AT BOTH SIDE PANELS TO ALLOW SLOTTING OF BACKREST ④

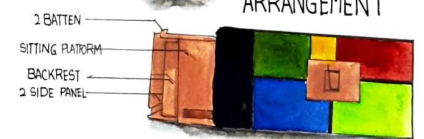
## FINAL MODEL



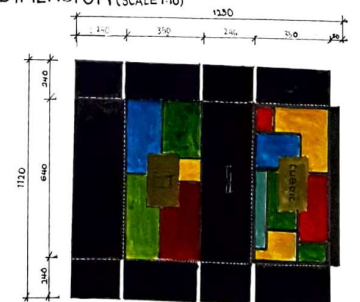
## PACKAGING



## ARRANGEMENT



## DIMENSION (SCALE 1:10)

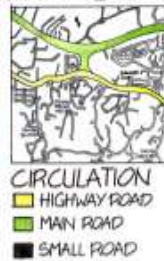
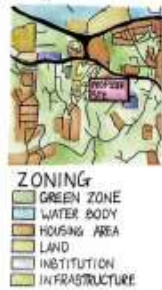




# PROJECT 03 (STAGE 01): SITE ANALYSIS

## INTRODUCTION

LOCATION: JALAN PECKY VALLEY 6, 90000, SANDAKAN, SABAH  
AREA: 493.02 M<sup>2</sup>  
COORDINATE: 5.855494, 118.10275  
THE SITE PROVIDES A RELAXING PLACE WITH NATURAL VIEW.



NORTH-WEST VIEW



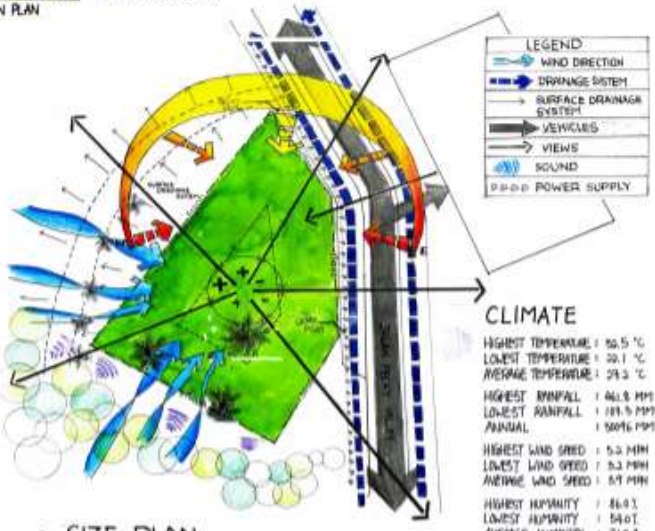
VIEW TOWARDS THE SIDE



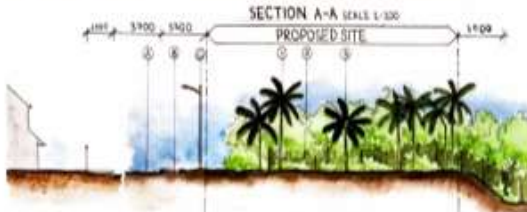
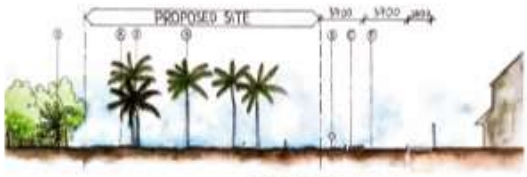
EAST VIEW



SOUTH-EAST VIEW



SITE PLAN (SCALE 1:200)



SECTION B-B SCALE 1:200

**VEGETATION**  
① BANANA TREE  
② COCONUT TREE  
③ ATTALIA SPECIOSA

**MANMADE**  
④ RUN-OFF PIPE  
⑤ ROAD SIGN  
⑥ DRAINAGE SYSTEM  
⑦ VEHICLE PATH

**VEGETATION**  
① ATTALIA SPECIOSA  
② SHRUBS  
③ COCONUT TREE

**MANMADE**  
④ VEHICLE PATH  
⑤ DRAINAGE SYSTEM  
⑥ LAMP POST

**S** STRENGTH  
- GOOD VIEW  
- MORE GREENERIES  
- LESS POLLUTION  
- LOW RISK OF FLOODING  
- LESS VEHICLE AND AIRPORT TRAFFIC

**W** WEAKNESS  
- NOT WELL SHARED  
- EXPOSED TO DIRECT SUNLIGHT  
- PROPOSED SITE IS FAR AWAY FROM THE BUS STATION

**O** OPPORTUNITY  
- ALLOW MORE OPPORTUNITIES FOR ENJOYMENT OF PROPERTY  
- NEARBY COMMERCIAL AREA COULD BE DEVELOPED IN FUTURE

**T** TREAT  
- SAFETY AND SECURITY PROBLEMS  
- CANALYSE FROM POLICE STATION  
- MUST BE WILD ANIMALS FROM FOREST

CHONG JUN KIT 19WVP02503 XAP FOON YI 19WVP03363 KHOO CHIEN 19WVP03425 LIEW MEI HANG 19WVP05513

## PROJECT 3 (STAGE 1): ARTIST

# PRECEDENT STUDY

## PROJECTION KITE



## BIOGRAPHY

NAME: PAMELA TAN POH SIN  
OCCUPATION: ARCHITECTURAL DESIGN EXPLORES VARIOUS FIELD IN ART, DESIGN  
QUALIFICATION: GRADUATED BACHELOR OF ARCHITECTURE FROM TAYLOR'S UNIVERSITY AND MASTER OF ARCHITECTURE FROM UNIVERSITY OF GREENWICH.



THIS INSTALLATION FLOATING IN THE SKY SYMBOLIZES LIFE AND CELEBRATION IT WAS ALSO CREATED FOR THE "GOOD VIBES FESTIVAL" IN MALAYSIA. LOOSE STRINGS THAT REACTED TO THE VIBRATION OF THE MUSIC AND THE WIND PERFECTLY SUIT THE EVENT.

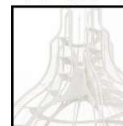
## STYLE

- EXPRESSING FORMS AND ELEMENTS THAT REVEAL WHAT WAS HIDDEN OR UNNOTICED
- SOMETIMES IT REVEALS MOVEMENT AND STRENGTH LINEARITY AND SIMPLICITY OF SINGULAR LINE ITSELF ENABLE HER TO HIGHLIGHT AND OUTLINE A CERTAIN PARTICULAR PATTERN OR DISTINCT NETWORK OF THE SUBJECT AND FORM.
- IN A LYRICAL MANNER, THUS HER PREFERENCE OF CURVES
- PORTRAYING COMPLICATION OF MOVEMENT BY VISUALS THROUGH THE REPETITIVE SIMPLICITY OF ELEMENTS.
- IMMERSIVE COLOURFUL AND SPECULAR SPACE BY USING COLOURED ROPES.

## INSPIRATION

INSPIRED BY NATURAL BEAUTY AND IMAGINARY IDEAL NATURAL FANTASY

## MATERIALS



METAL



COTTON THREAD



CRYSTAL BALL

## SPACE REQUIREMENTS



HAVE HER OWN PEACEFUL AND BRIGHT PERSONAL STUDIO SPACE TO DO HER ARTWORK, DESIGN, EXPERIMENTATION WORK.

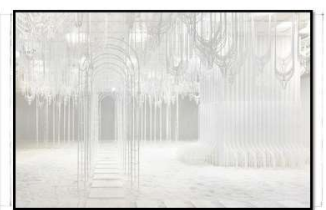


PLACE FOR YOGA MEDITATION, TEA, READING AREA AND A NICE LIBRARY.



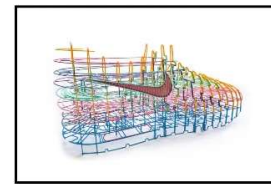
SPACE ACCOMMODATE TWO CATS.

## EDEN



'EDEN' BLURS THE BOUNDARIES BETWEEN MAN-MADE WONDERS AND THE BEAUTY OF NATURE, PROVIDING VISITORS WITH A REFUGE AWAY FROM THE HUSTLE AND BUSTLE OF DAILY LIFE AS A SPACE OF SOLACE AND CONTEMPLATION

## FOOTPRINT AND VASE



MOST OF HER WORK OFTEN HAS TO DO WITH EXPRESSING STRENGTH, MOVEMENT, AND PATTERN IN THE MOST DELICATE MANNER IN THIS PROJECT, SHE WAS KEEN ON THE IDEA OF ARCHITECTURE AND DESIGN FROM BARE BONES.

## DOMES OF DISAPPEARANCE



HAS A THREEFOLD PURPOSE AS A COLUMBARIUM, A QUIET ARCHIVE OF THE CITY'S MEMORIES AND SITES THAT HAVE BEEN ERASED OVER TIME, AS A SAFE HOUSE FOR SHARING AND COMMUNITY-BUILDING, AS A RESPONSE, DISRUPTING COMMON CULTURAL AESTHETICS AND PERCEPTION IN HOPES OF FOSTERING MEANINGFUL DIALOGUES.

CHUNG JUN KIT (19WVP02503)



# PROJECT 3 (STAGE 1) : COMPACT LIVING

## PRECEDENT STUDY FARNSWORTH HOUSE

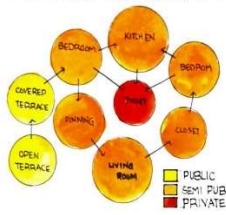


ARCHITECT: LUDWIG  
MIES VAN  
DER ROHE  
BORN: MARCH 27, 1886

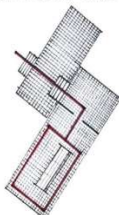


LOCATION: SPRINGFIELD, ILLINOIS,  
UNITED STATES  
AREA: 140 SQM  
THE BUILDING HAS ONLY ONE ROOM,  
CONSTRUCTED OF GLASS AND STEEL  
WITH A VERY SIMPLE SHAPE.

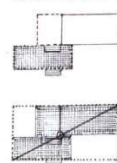
### BUBBLE DIAGRAM



### CIRCULATION



### DESIGN PRINCIPLE



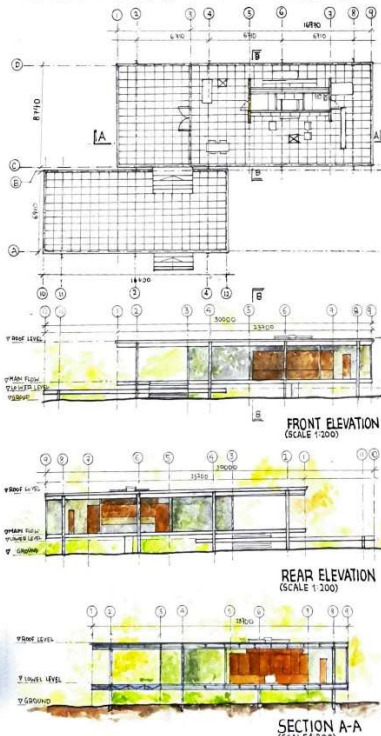
HIERARCHY

GEOMETRY

ADDITIVE AND  
SUBTRACTIVE

REPETITION

### ORTHOGRAPHIC DRAWING



### DESIGN FEATURES



**ELEVATED BASE PLANE**  
A HORIZONTAL PLANE ELEVATED  
ABOVE THE GROUND PLANE  
ESTABLISH VERTICAL SURFACE  
ALONG ITS EDGES THAT REINFORCE  
THE VISUAL SEPERATION.

**WINDOW WALL OPENING**  
TOP TO BOTTOM TO ENLARGE AND  
MAXIMISE THE VIEW TO THE  
NATURAL

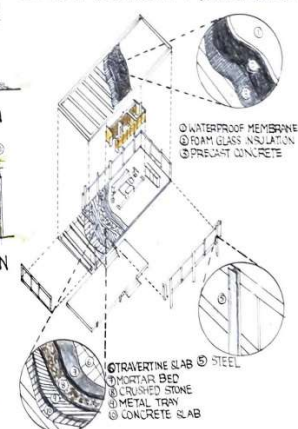
### THE CORE

THE INTERIOR OF THE  
HOUSE IS DISRUPTED  
ONLY BY THE CORE OF  
BLOCK CONSTRUCTED  
PRIMARILY OF  
PRIMAVERA  
PLYWOOD

KITCHEN, TOILET AND  
FIRE PLACE

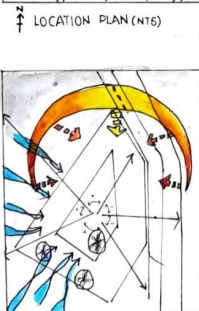
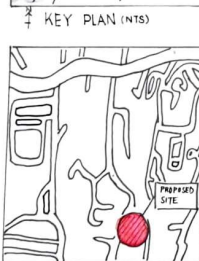


### CONSTRUCTION MATERIALS



CHUNG JUN KIT (19WVD02503)

# PROJECT 3: COMPACT LIVING ARTIST STUDIO



SUN PATH, WIND DIRECTION,  
VIES (NTS)



SITE PLAN (SCALE 1:100)



# DIO (CHUNG JUN KIT 19HVD03503)

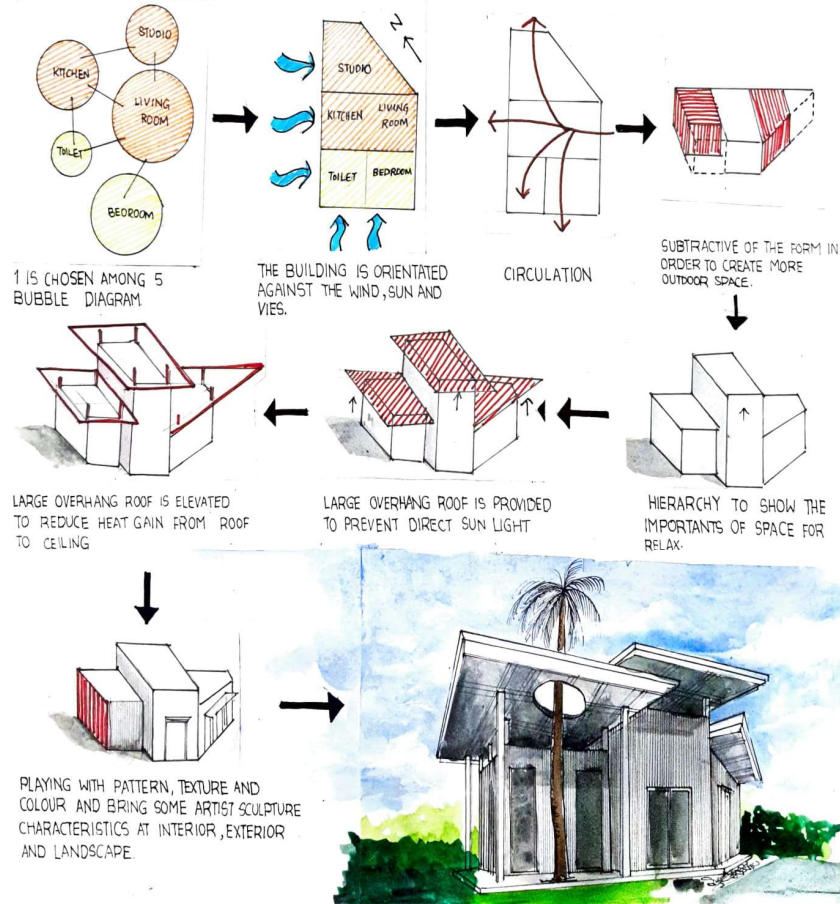
## INTRODUCTION

"COMPACT LIVING ARTIST STUDIO". THE STUDIO ACTS LIKE A SPACE FOR THE ARTIST TO GET HER INSPIRATION AND TO DO HER ARTWORK TOGETHER WITH THE NECESSITY TO LIVE FOR A SHORT TERM. THIS COMPACT LIVING ARTIST STUDIO IS TO BE DESIGN FOR A SINGLE PERSON OCCUPANCY USING SUSTAINABLE GREEN MATERIALS. THE BUILT-UP AREA FOR THE ARTIST STUDIO IS WITHIN (50-100sq.m).

## DESIGN INTENTION

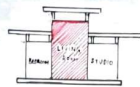
MY DESIGN INTENTION IS TO GAIN EXPOSE AND ATTRACTION OF THE PUBLIC TOWARDS THE CAPSULE OF MY ARTIST, PAMELA TAN POH SIN WITH HARMONIC SCENERY. THE LIVING CAPSULE IS DESIGNED FOR THE ARTIST TO PORTRAY HER ARTWORKS AS WELL AS TO GATHER PEOPLE WITH SAME INTERESTS IN ARTS AND CATS. THE INTENDED INTERACTION CAN BE PART OF CONTINUOUS CONTRIBUTIONS AND SOURCES TO TRIGGER THE ARTIST'S CREATIVITY AND INSPIRATION IN PORTRAYING HER NEW ARTWORKS. FURTHERMORE, THE ARTIST WISH TO FEEL AND BE PART OF THE NATURE WHILE SHE IS HER OWN TIME, SO A GAZEBO IS THE PROPOSED FOR HER YOGA AND HER MEDITATION PRACTICES DURING HER FREE TIME.

## DESIGN PROCESS



## DESIGN PRINCIPLE

### ① HIERARCHY



A FORM OF SPACE BEING ARTICULATED AS BEING IMPORTANT TO AN ORGANIZATION

### ② RHYTHMIC AND SURFACE ARTICULATION



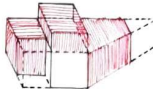
RHYTHMIC PATTERN ON FACADE CREATED MOVEMENT AND TO EMPHASIZE THE HEIGHT AND TEXTURE QUALITY.

### ③ PATTERN

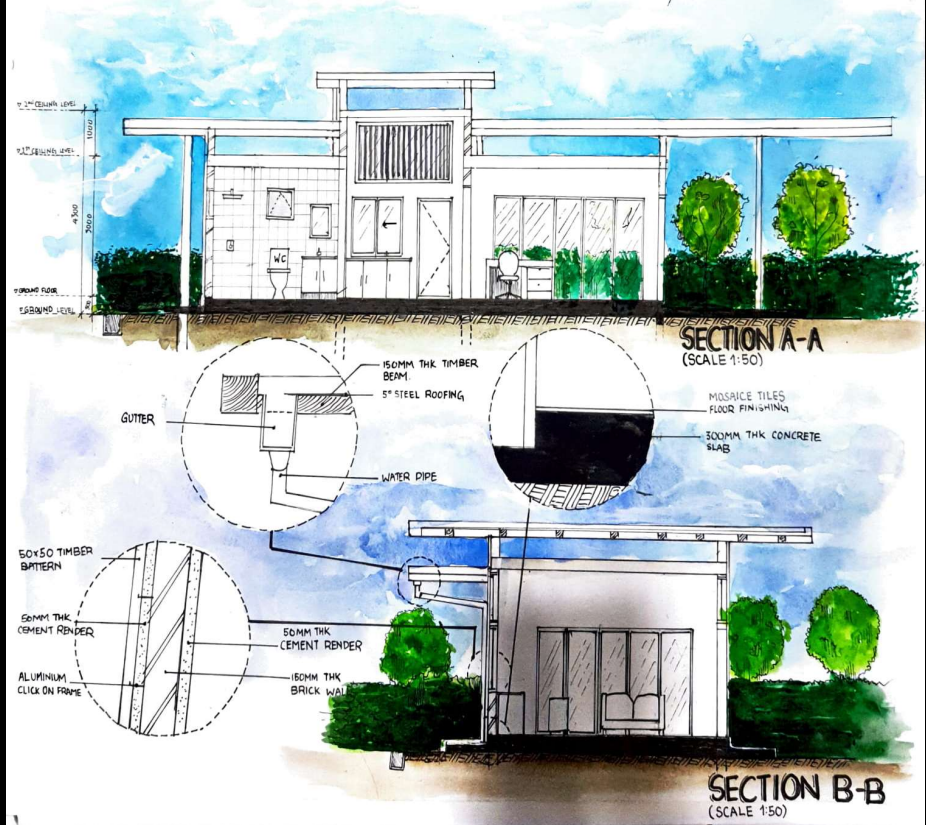
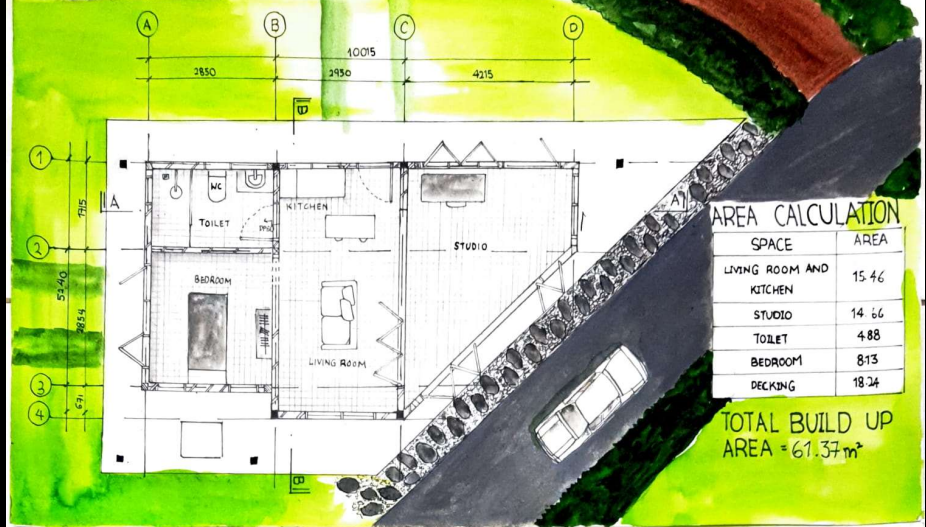


SHAPE OF THE BUILDING REFLECTS TO THE SITE. CREATE UNIQUENESS TO THE BUILDING

### ④ ADDITIVE AND SUBTRACTIVE



## FLOOR PLAN (SCALE 1:50)







**FRONT ELEVATION**  
(SCALE 1:50)



**REAR ELEVATION**  
(SCALE 1:50)



**LEFT ELEVATION**  
(SCALE 1:50)



**RIGHT ELEVATION**  
(SCALE 1:50)

## DESIGN FEATURES

### ① LARGE ELEVATED ROOF (PASSIVE COOLING STRATEGY)



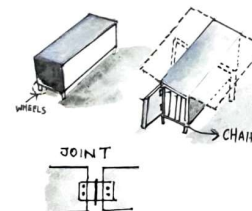
THIS CAPSULE HAS A LARGE OVERHANG WHICH TO TAKE ADVANTAGE OF PREDOMINANT WINDS FOR COOLING AND PROTECT FROM SUN AND RAIN, CREATING COMFORT WITHOUT USING ENERGY

### ② RAINWATER HARVESTING



DIVERTING RAINWATER RUNOFF INTO A WATER STORAGE TANK ALLOWS US TO CONTROL WATER DISTRIBUTION. ITS PROVIDE GREATER ON-DEMAND IRRIGATION, SUSTAINABILITY AND RECYCLING

### ③ MODULAR TABLE



MODULAR KITCHEN TABLE WHICH CAN ACCOMMODATE MORE THAN TWO PERSON SPACE SAVING AND EASY TO MOVE

## AXONOMETRIC (SCALE 1:100)

