

PORTFOLIO

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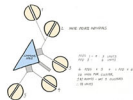
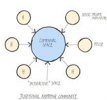
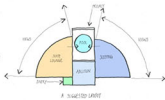
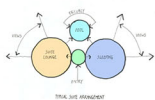
03 SIDE-PROJECTS

WORK/INTERNSHIPS

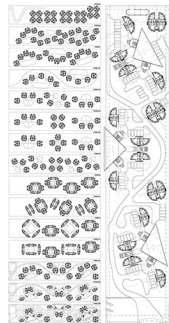
JIMMY LIM DESIGN (SG, PG, KL) : 2015

CENDES + TENARCHITECTS & PLANNERS PTE. LTD. : 2014 - 2016

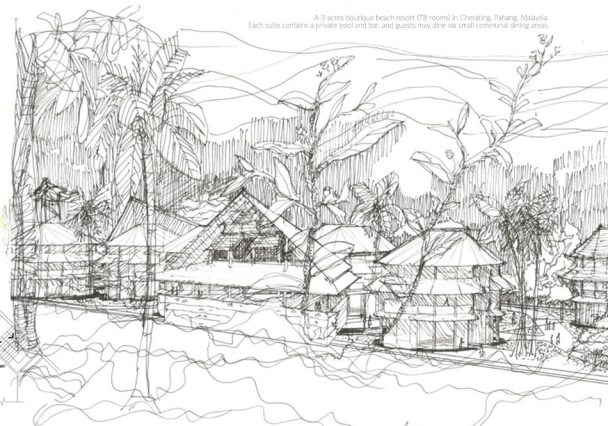
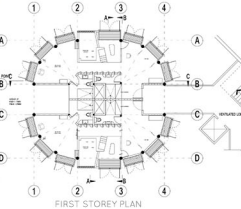
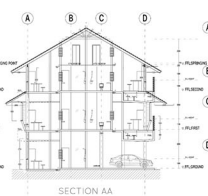
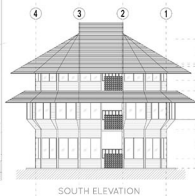
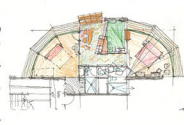
TENARCHITECTS : 2014



CONCEPT DIAGRAMS
A BOUTIQUE HOTEL THAT EMBRACES
BOTH LUXURY AND COMMUNITY SPIRIT

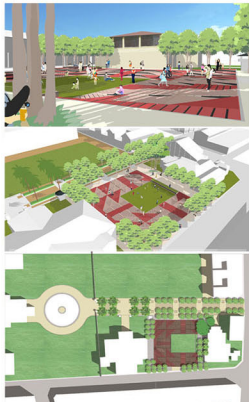


DESIGN SKETCHES
LUXURIOUS TROPICAL SUITES WITH
INDOOR POOL + BAR



A 3-acre boutique beach resort (78 rooms) in Cherating, Pahang, Malaysia.
Each suite contains a private pool and bar, and guests may dine via small communal dining areas.

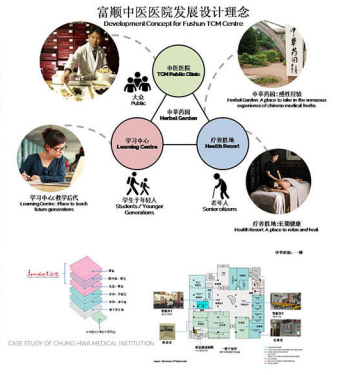
JIMMY LIM DESIGN
AUG 2015 ONWARDS



KAMPONG GLAM: PUBLICITY COMPETITION ENTRY (2014)



PROPOSED DEVELOPMENT MASTER PLAN FOR MALÉ, MALDIVES (2014 - 2015)

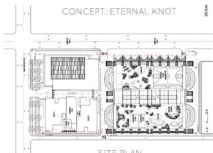


TRADITIONAL CHINESE MEDICINE CENTRE, FUSHUN CITY, ZIGONG PROVINCE, CHINA (2016)



CONCEPT: ETERNAL KNOT

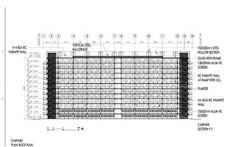
Yangon is a city in rapid transition, continuously morphed by endless cycles of interwoven urban human activities. The interconnected relationships of the city and its constituents share a parallel with the 'Eternal Knot' or 'Endless Knot', a Buddhist symbol carrying meanings of cyclic existences, the interweaving of the spiritual path and the flowing of time and movement within that which is eternal. The façade motif derived from the inverse abstraction of this knot is inspired from the intricate connections within the city and expresses the desire for Maha Bandula City to be seamlessly woven into the city.



SITE PLAN



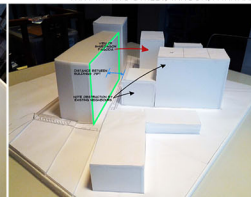
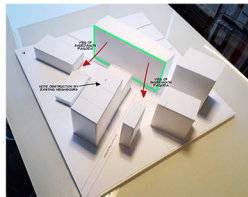
ROOF PLAN



ELEVATION: FACADE



MAHABANDULA CITY, YANGON, MYANMAR



This is a proposed residential development project at Tha Pyay Nyo Street, Yangon, Myanmar. Composed of a mix of various apartments, and meant to capture a view of Shwedagon Pagoda via its penthouse units and rooftop facilities.



BASEMENT PLAN



GROUND FLOOR PLAN



TYPICAL APARTMENT PLAN



7TH STOREY PLAN



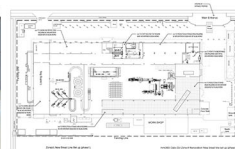
ATTIC PLAN

DEVELOPMENT DATA

Plot Area	1483.074 ac
Approved floor area	5865.84 ac
Approved floor area ratio	3.95
Approved site coverage	0.65
Approved building height & stories	100m x 10
Approved floor area ratio	4700.88 ac
Approved floor area ratio	45
Plot no. of blocks	52

GENERAL SERVICE

NO.	DESCRIPTION	NO. OF UNITS	THREATENED UNITS
1	1-BED	100	100
2	2-BED	200	200
3	3-BED	300	300
4	4-BED	400	400
5	5-BED	500	500
6	6-BED	600	600
7	7-BED	700	700
8	8-BED	800	800
9	9-BED	900	900
10	10-BED	1000	1000
11	11-BED	1100	1100
12	12-BED	1200	1200
13	13-BED	1300	1300
14	14-BED	1400	1400
15	15-BED	1500	1500
16	16-BED	1600	1600
17	17-BED	1700	1700
18	18-BED	1800	1800
19	19-BED	1900	1900
20	20-BED	2000	2000
21	21-BED	2100	2100
22	22-BED	2200	2200
23	23-BED	2300	2300
24	24-BED	2400	2400
25	25-BED	2500	2500
26	26-BED	2600	2600
27	27-BED	2700	2700
28	28-BED	2800	2800
29	29-BED	2900	2900
30	30-BED	3000	3000
31	31-BED	3100	3100
32	32-BED	3200	3200
33	33-BED	3300	3300
34	34-BED	3400	3400
35	35-BED	3500	3500
36	36-BED	3600	3600
37	37-BED	3700	3700
38	38-BED	3800	3800
39	39-BED	3900	3900
40	40-BED	4000	4000
41	41-BED	4100	4100
42	42-BED	4200	4200
43	43-BED	4300	4300
44	44-BED	4400	4400
45	45-BED	4500	4500
46	46-BED	4600	4600
47	47-BED	4700	4700
48	48-BED	4800	4800
49	49-BED	4900	4900
50	50-BED	5000	5000



MAYSON BAKERY FACTORY DESIGN *Mayson Bakery*



KITCHEN RENOVATION PROJECT

TENARCHITECTS

FEB-SEP 2014
PRE-MARCH YEAR OUT INTERNSHIP

COURSEWORK

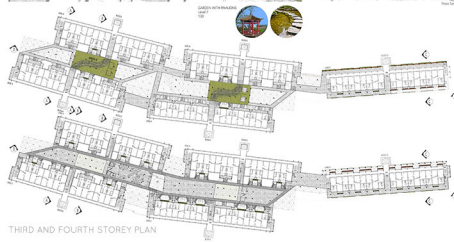
M.ARCH THESIS
B.A. (ARCH) COURSEWORK
HAND DRAWINGS
SONIC ARTS PROJECTS



LEVEL 7 GARDEN PLAN



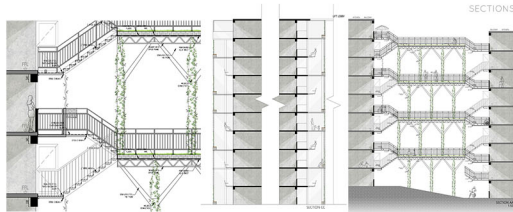
VARIATIONS



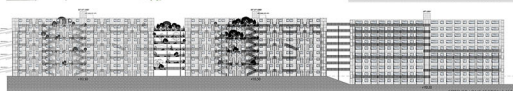
THIRD AND FOURTH STOREY PLAN



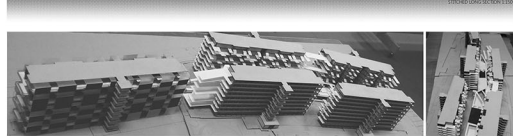
GARDEN WITH BUILDING PLAN



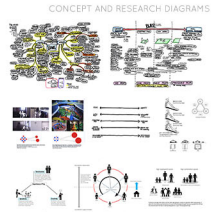
SECTIONS



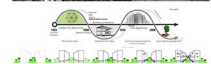
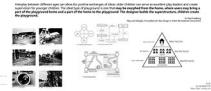
SITCHED LONG SECTION L1-D0



MODEL



CONCEPT AND RESEARCH DIAGRAMS



CONFLUX

REIMAGING MOBILITY VIA INTERCHANGE POINTS IN ONE-NORTH
Y4 AY 12/13 SEMESTER 2 STUDIO TUTOR: TAN TECK KIAM
DONGYEOL LEE A0103114E
HUI BI A0041171X



AERIAL

MIDWAY

STREET

UNDERGROUND

A STREET FOR CONVERGENCE



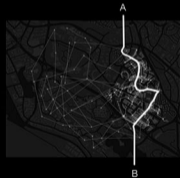
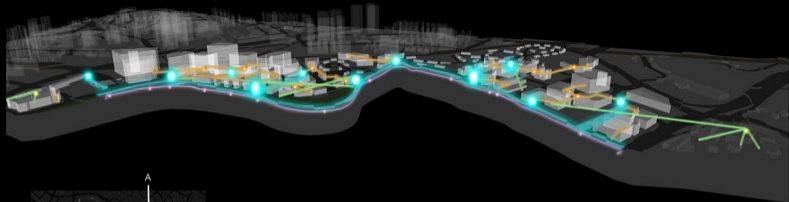
CLIVE WILKINSON'S GOOGLEPLEX REVEALS HIS BELIEF THAT THE DESIGN OF A CREATIVE ENVIRONMENT SHOULD BE LESS CONCERNED WITH BUILDINGS, AND SHOULD INSTEAD BE MORE FOCUSED ON CREATING A CENTRAL STREET WHICH ENABLES THE SEAMLESS FLOW OF PEOPLE, ACTIVITIES AND THUS INTERACTIVE OPPORTUNITIES.



Structure a 'Main Street' with storefront building blocks.



Reduction of Main Street - neighborhood space for its collection

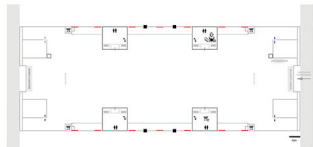


0 100 300 600 1000M

RAILWAY STATIONS, NODE-PLACES, NOW JUST NODES



PEAK, NON-PEAK, NIGHT



FORMATIONS

FORM
IT ALL STARTS WITH A SHAPE, WHERE SPATIAL, VISUAL, AND PHYSICAL FORMS ARE THE RESULT OF A SERIES OF FORMS TO FOLLOW.



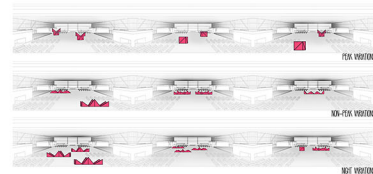
CONTAINED SPACES
TETRA-TENTS ARE A METHOD OF UTILIZING THE SPATIAL SPACES, OFFERING FORMATIONS OF SOLID TENTS ALONG WITH A VARIETY OF INTERIOR AND COURTYARD SPACES.



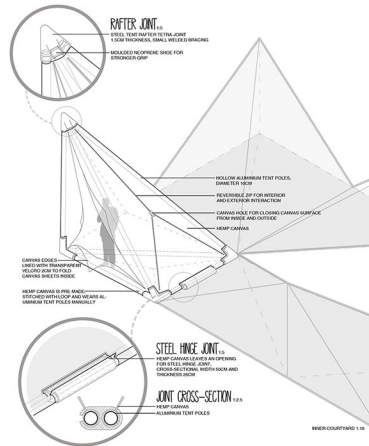
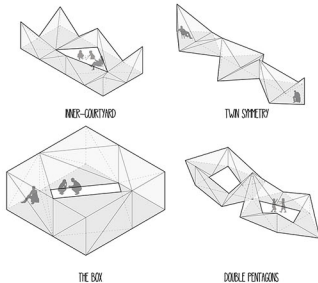
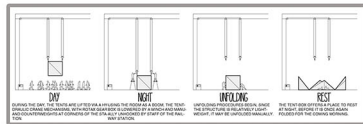
TEXTURE TREATMENT
A VARIETY OF TEXTURES MAY EXIST ON VARIOUS SURFACES. THESE MAY INCLUDE TEXTURES OF SOLID, EFFECT AND TEXTURE TO ELABORATE INTERESTING SURFACES FOR CREATING STYLING OPPORTUNITIES.



SOFT-EDGES CREATION
A DETAILED OF CREATING INTERIORS TO IMPROVE COMFORT OF SOFT SEATING, PULL-OUT FURNITURES ARE EMPLOYED HERE.



MECHANISM FOR TETRA-TENTS



IMPRINT

Imprints of Human Activities reflected in the habitable façade.

PLANS and PERSPECTIVES

PERSPECTIVE



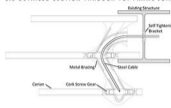
1:100 PLAN



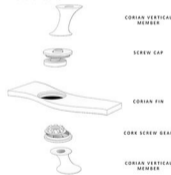
ARQUITECTURA E INGENIERIA TECNOLÓGICA
Módulo de Inovação, by Eng.º Rui Mourão
Team: André Ribeiro

MATERIAL and JOINTS.

1:3 DETAILED SECTION THROUGH TOP-FRAME JOINT



1:5 JOINT ASSEMBLY IN ORDER OF ASSEMBLY



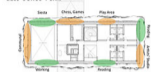
JOINT and EFFECT.



1:5 OVERALL JOINT

PLAN and PROGRAMS.

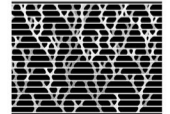
3:200 SCALE PLAN.



ELEVATIONS OF THE DIFFERENT FACADE SPACES.

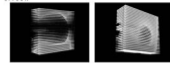


EFFECT OF VERTICAL SUBSTRUCTURE



INTENTION.

EFFECT.

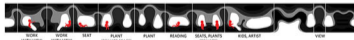
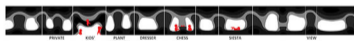


The facade goes beyond just the function of a weather screen, allowing the sun and the open from the interior spaces. The facade transforms into a glass where one can spend an afternoon reading a novel, taking a nap, or just sitting for daylight. The facade takes into account privacy and areas, ensuring that inhabitants are offered the best views outside through careful location of the inhabitable spaces. The facade allows for visual connection and privacy from the residents' point of view, but guaranteeing one light in the dark about the situations outside. The facade however does not affect the activities: children's play area, Reading, Chess to entertainers. The facade remains from open to space.

STUDY OF POSTURES AND SCALE.



SPATIAL FUNCTIONS.

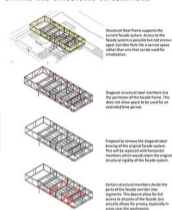


GRAPHICAL REPRESENTATION OF VARYING PRIVACY



GRAPHICAL REPRESENTATION OF VARYING PRIVACY

SPATIAL AND STRUCTURAL EXPLORATIONS.



Structural steel frame supports the current facade system. Access to the facade system is possible for non-occupant staff. Corian facilitates a service space either that can be used for exhibition.

Diagonal structural steel members line the perimeter of the facade frame. This does not allow space to be used for an extended time period.

Proposal to remove the diagonal bracing of the original facade system. This will be replaced with horizontal members which would retain the original structural rigidity of the facade system.

Central structural members divide the parts of the facade corridor into segments. This doesn't allow for full access to all parts of the facade, but actually allows for privacy, especially in areas near the workstations.

MATERIAL and JOINTS.

CORIAN.

Corian® is a solid, non-porous surfacing material homogeneously composed of 1/3 acrylic resin (also known as Polyethyl Meth. Acrylate or PMMA), and 2/3 aluminum Trihydrate (ATH), a natural mineral filler obtained from bauxite.

Versatile, malleable, functional and durable: It can be cut, routed, drilled, sculpted, bent, 180°/90°/45° worked (bendable like a fiber wood).

Durable and renewable: It lasts long time and can easily be repaired and renewed. Because it's recyclable, Corian® generates up to 1/3 less waste than stone in fabrication process. It is stain-resistant, scratch-resistant, UV-resistant, water-resistant and heat-resistant.

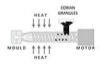
See: www.corian.com/US/Products

Property	Unit	Value
Modulus of Elasticity	ksi	1,100,000
Tensile Strength	ksi	10,000
Compressive Strength	ksi	10,000
Flexural Strength	ksi	10,000
Impact Resistance	ft-lb/in	10,000
Heat Resistance	°F	10,000
Chemical Resistance	Chemical	10,000
Stain Resistance	Stain	10,000
Scratch Resistance	Scratch	10,000
UV Resistance	UV	10,000
Water Resistance	Water	10,000
Fire Resistance	Fire	10,000
Acoustic Properties	Acoustic	10,000
Electrical Properties	Electrical	10,000
Machinability	Machinability	10,000
Adhesives	Adhesives	10,000
Finishes	Finishes	10,000
Colors	Colors	10,000
Grains	Grains	10,000
Textures	Textures	10,000

CONSTRUCTION PROCESS.

INJECTION MOLDING & EXTRUSION

- Injection Moulding: 1. Granules of Corian powder are fed into a hopper which stores it until it's needed.
- A heater heats up the tub and when it reaches 350°C, a screw thread starts turning.
- A motor turns a thread which pushes the granules along the heater section which melts them into a liquid.
- The liquid is forced into a mould where it cools into the shape.
- The mould then opens and the module is removed.



CORIAN PIECE

Injection moulding technique allows the corian vertical members to be mass produced, which will help save time and cost, and at the same time, ensure that the quality is consistent throughout each member. Customisation of the members will be done on site with the aid of the cork screw gear to orientate each member to its designed angle and position.

CONSTRUCTION PROCESS.

Waterjet Cutting Machine:

The process of waterjet cutting uses the principle behind water erosion by sandblasting: cut of water at high pressure, or a mixture of water and an abrasive substance to cut through materials such as metals and plastics. It is often used in the fabrication or manufacture of parts for machines.

Compared to plasma or laser cutting, waterjet cutting does not involve high temperature heating, thus resulting in minimal material deformation when in operation. Although, corian is heat resistant in nature, there is still a likelihood that it may deform under extremely high temperature, hence, waterjet cutting is preferred to avoid material deformation while maintaining precision and control in cutting.

ADVANTAGES: Cold cutting without thermal influences. Flexible processing of virtually all materials with consistent high quality. Material-saving production due to reduced cutting width and the nesting of several parts in a single sheet. Precise: Maximum degree of material utilization due to the smallest of part separation distances (partially free of burrs) and part-in-part production. Environmentally friendly and clean production without poisonous gases.



1:3 JOINT MEMBERS FOR MASS-PRODUCTION



CORIAN VERTICAL MEMBER

STEEL CABLE SLEEVE

CORK SCREW GEAR

STEEL CABLE SLEEVE

SCREW CAP

SITE ANALYSIS



ASSESSMENT

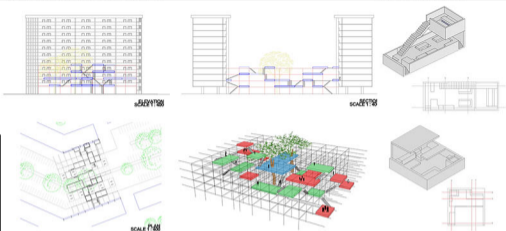


CONCEPT

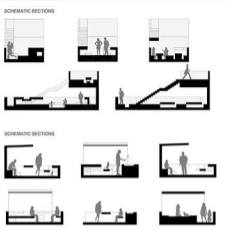


An assessment of the site reveals the introduction of a semi-enclosed central area, the central axis, provides the site with a strong sense of direction. In the context of the site, the central axis is highlighted to serve as a communal space that connects the building to the surrounding area. All residents will access the central axis to experience their building, the building's connection to the surrounding area, and the building's connection to the surrounding area. The central axis is highlighted to serve as a communal space that connects the building to the surrounding area. All residents will access the central axis to experience their building, the building's connection to the surrounding area, and the building's connection to the surrounding area.

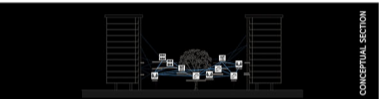
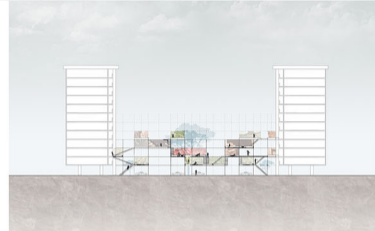
PLAN | SECTION | ELEVATION | ISOMETRIC



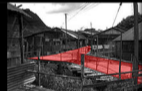
BARBEQUE UNITS 1 & 2



SCHEMATIC SECTION



CONCEPTUAL SECTION



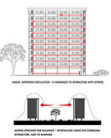
KAMPUNG IN HDB

There are a number of ways to create a kampung-like atmosphere in a high-rise building. One way is to create a central axis that connects the building to the surrounding area. Another way is to create a communal space that connects the building to the surrounding area. The central axis is highlighted to serve as a communal space that connects the building to the surrounding area. All residents will access the central axis to experience their building, the building's connection to the surrounding area, and the building's connection to the surrounding area.

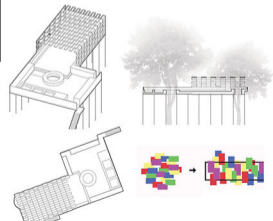
KAMPUNG



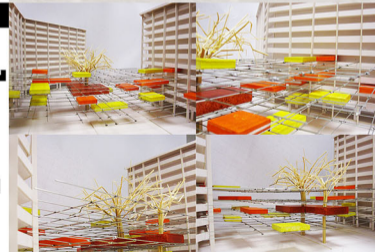
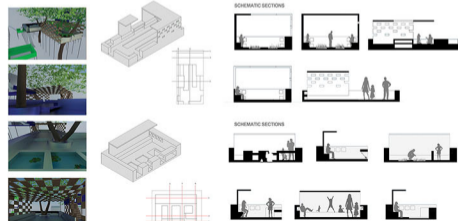
HDB



PLAZA UNIT

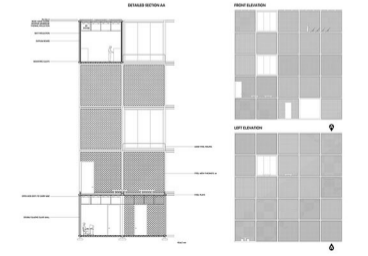
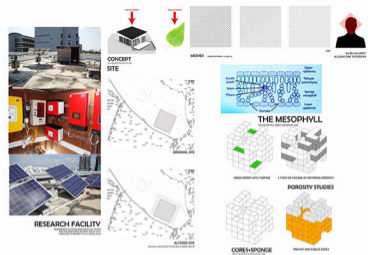
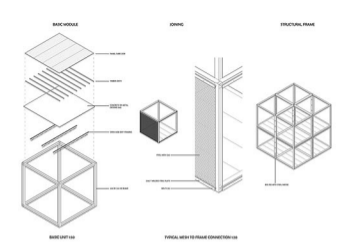
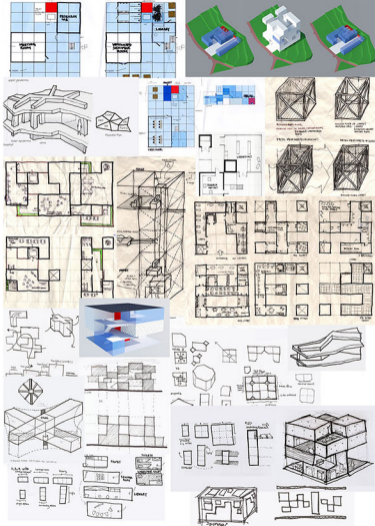


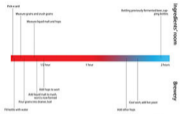
GARDENING UNITS 1 & 2



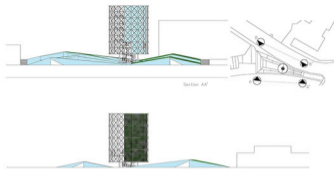


Process Models

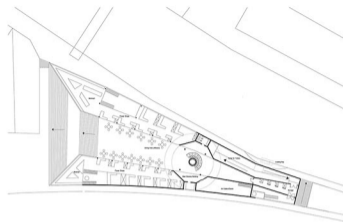




Concept
1:200



Elevations I
1:200



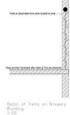
Main Floor Plan
1:200



Top Brewery Floor Plan (above first floor)
1:200

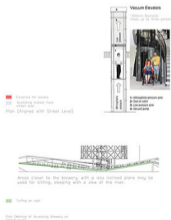
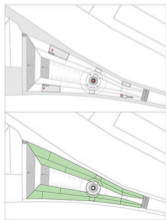


First Floor Plan
1:200

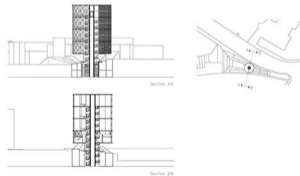


Detail of Walls on Brewery Building
1:50

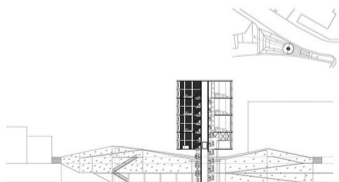
Brewery Workings
1:100



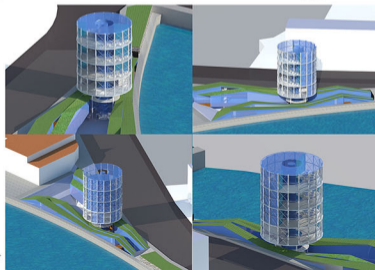
Plan Details
1:200

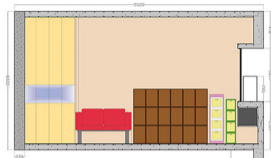
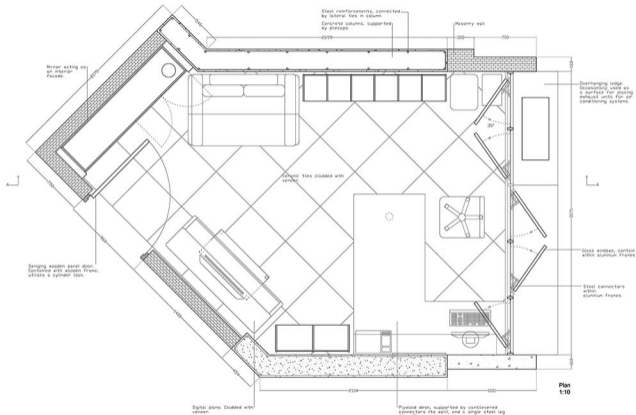


Left and Right Sections I
1:200



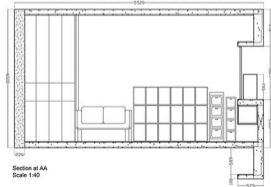
Internal Elevation AA'
1:100





Section rendered in colour
Scale 1:40

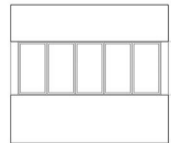
Roof sectional view AA
Diagram B
Scale 1:40



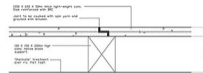
Section at AA
Scale 1:40



The room (single bedroom) is lined with ceramic tiles (clad with veneer), and is supported by two reinforced concrete columns. The wooden panel door utilizes a cylinder lock, and is contained within a wooden frame. The glass windows are contained within aluminum frames. Most of the furniture revealed are made of plywood (overhanging cabinets, cantilevered desk, bookshelves). An exterior ledge lies beyond the windows, which in this case, is used as a load bearing ledge for containing the exhaust unit of the air conditioner.



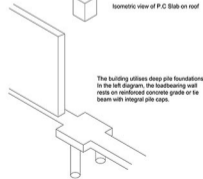
Elevation from window exterior
Scale 1:40



Detail at 'X', Refer to diagram B.
Scale 1:20



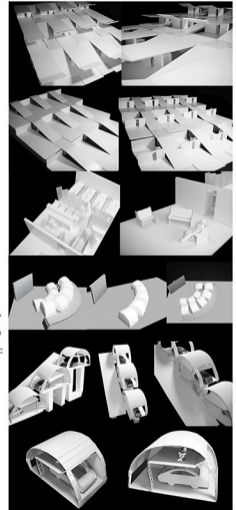
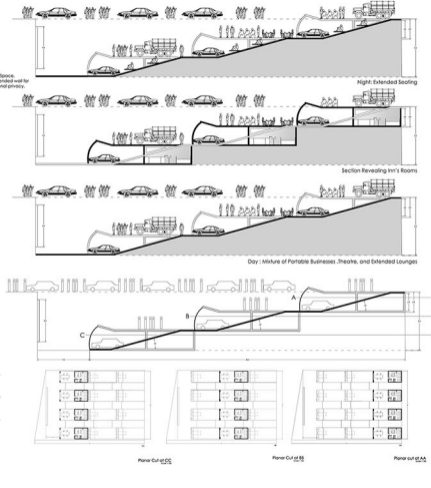
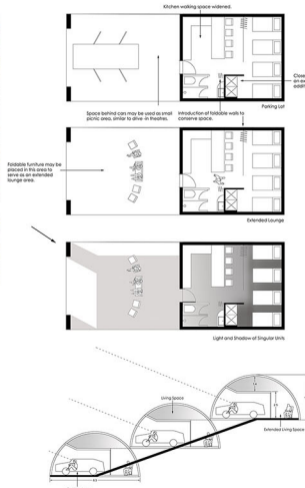
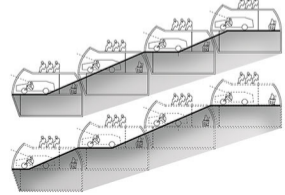
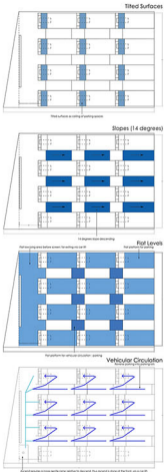
Isometric view of P.C Slab on roof

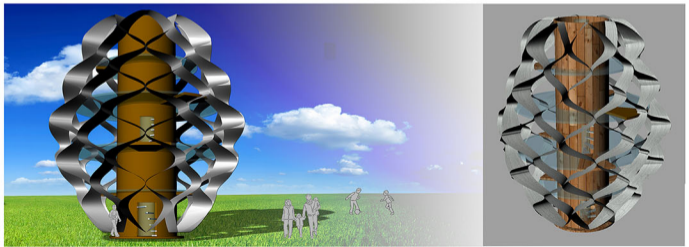
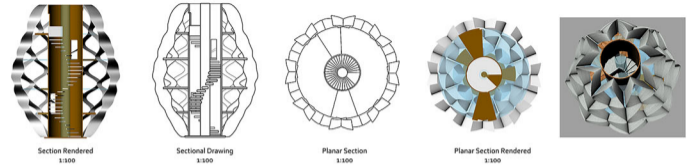
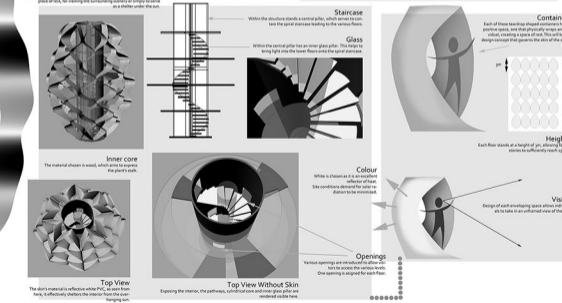
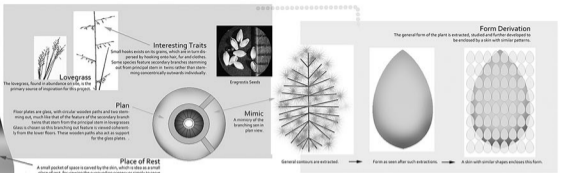


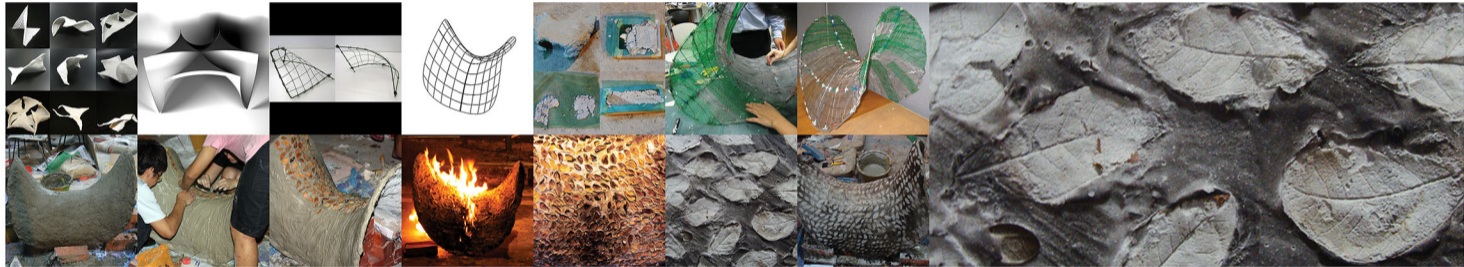
The building utilizes deep pile foundations. In the left diagram, the load-bearing wall rests on reinforced concrete grade or tie beam with integral pile caps.

MOVIE HOSTEL @ LEMBU ROAD

drive in theatre meets hostel





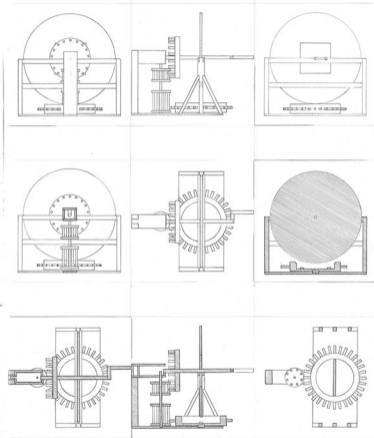
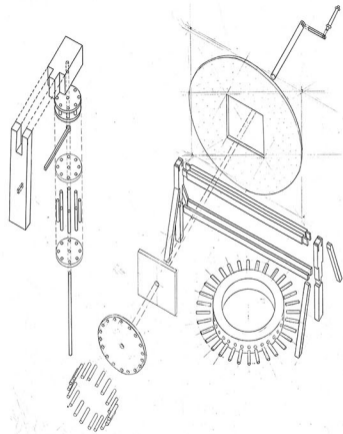


MOTIF

Leonardo da Vinci

Device for Grinding Concave Mirrors, 1480

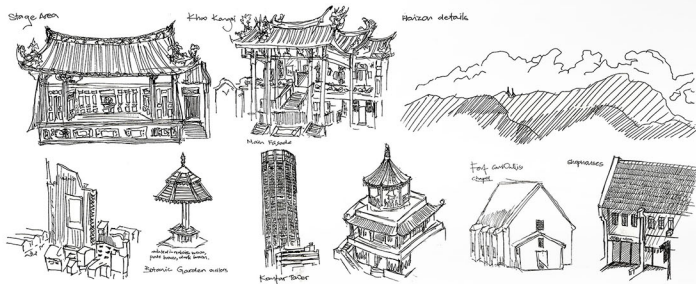
Plywood construction
Collection of hand drawings



PHOTOGRAPHS
DEVICE FOR GRINDING CONCAVE MIRRORS
LEONARDO DA VINCI

DEVICE FOR GRINDING CONCAVE MIRRORS
LEONARDO DA VINCI

PLAN, ELEVATIONS, SECTIONS
DEVICE FOR GRINDING CONCAVE MIRRORS
LEONARDO DA VINCI

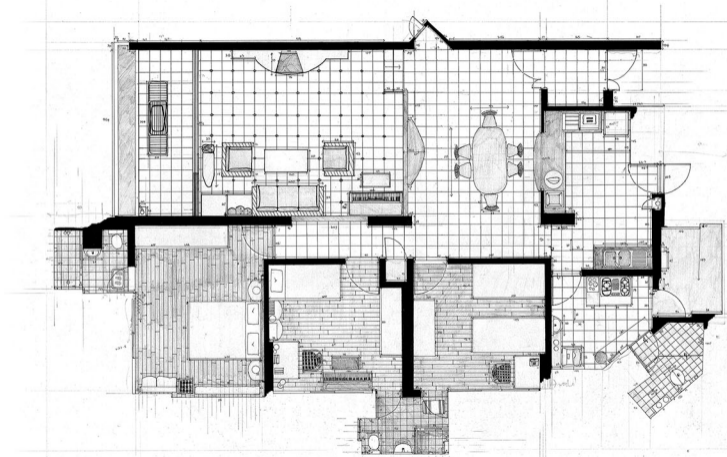


SKETCHING PENANG

Collection of sketches done in Penang, 2009



APARTMENT PLAN
GILLMAN HEIGHTS, BLK F. 08-49



PICK A RAIN PONCHO



SELECT MATERIAL



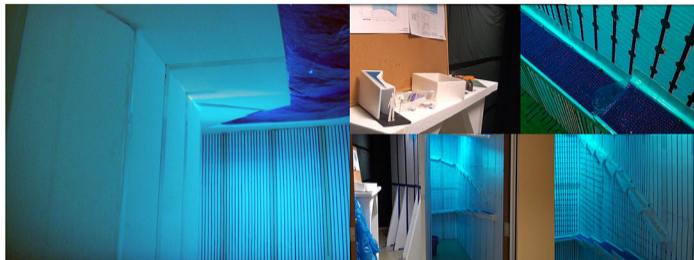
STICK IT IN



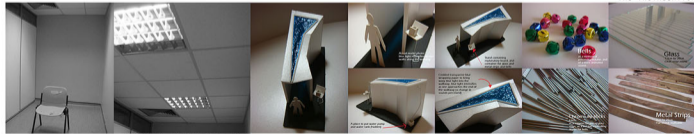
ENJOY!



Visitors first pick up an instrument (a bolt, a chromium stick, a glass slab or a metal strip). These are then placed and stuck onto the styrofoam walls, where they will then produce respective sounds according to the weight, height and speed of the water drops that fall onto them. The entire space is bathed in shades of cool blue light. Constructed using salvaged materials, users enter this 2-metres high styrofoam structure and stick an 'instrument' into the walls, allowing falling water droplets to strike these surfaces and partake in a user-customized sonic experience. Over time, the sonic experience intensifies.



THE INSTALLATION



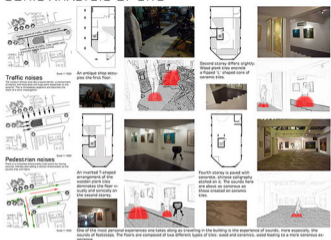
LOCATION: USP STORAGE ROOM

MODELS

INSTRUMENTS



SONIC ANALYSIS OF SITE

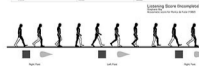
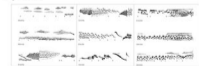


SONIC TO VISUAL ANALOGUE

Combining sound and architecture is an idea in multi-progression. For the start of this investigation, the visual modes of transitioning sounds are studied, with the desire to carry them to influence architecture.

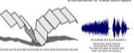


These works have, taken from the *«Happen»* exhibition in Amsterdam, July 2008, are a series of data recordings, a kind of translation of sounds with the aid of information after being recorded into a physical media, sounds lose their temporal essence, but are given a tangible existence which seems to describe being frozen in time.



Waveforms to expression

The most formal expression of sound is perhaps its graphical waveforms. These are nearly two-dimensional, but can be given a three-dimensional existence through extrusion, superimposition or a combination of these techniques.

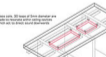


RESONANCE CHAMBERS

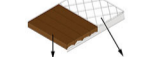


INDETERMINACY

Resonance chambers are a series of interconnected spaces that create a complex acoustic environment. The sound waves are reflected and refracted, creating a rich and varied sonic experience.



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Resonance Chambers Listening Guide



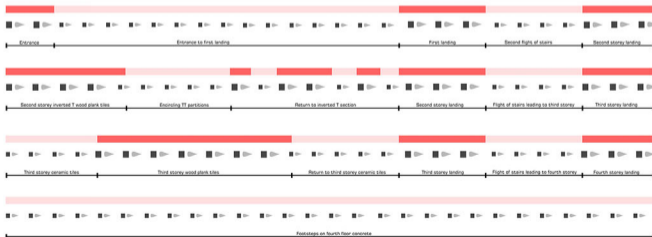
BUILDING AS MUSICAL INSTRUMENT



ACOUSTIC SCORE

Assigning an arbitrary sequence

To dictate a sequence, a directionality is imposed. This allows a sequence to be composed for a score, and thus sounds can be assigned and heard at specific sections of this acoustic score. For the purposes of an investigation, an assigned sequence of walking is imposed. The resulting acoustic score would then be very similar to the one illustrated below.

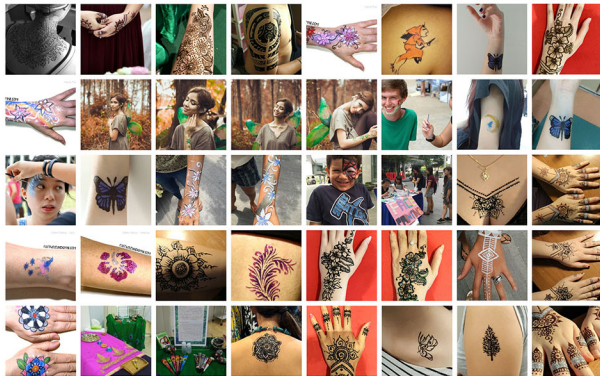


SIDE-PROJECTS
ACCESSORIES
BODY ART PROJECTS



EKAI (2014)

Ekai, with its name derived from the french word écale, was conceived with the intention of creating lightweight jewelry akin to a second skin. Digital fabrication skills picked up during my architectural coursework were redirected into making accessories of diverse materials, and were sold at numerous handicraft markets.



TOUCH OF COLOUR (2015)

As an online shop (which also doubles as a home-based temporary tattoo studio) that offers diverse body-painting and temporary tattoo services, this is my outlet for my impulses to paint on skin -- by providing temporary tattoo services and new body art products for the public.