Bachelor of Interior design
School of Interior design
CEPT University Gujrat,
Ahmedabad, India.

Visiting Faculty.
CEPT University.
Gujrat, Ahmedabad,
India.

Currently pursuing.
Masters In Advanced Architecture
Institute of Advanced Architecture Catalunya.
IAAC.
Barcelona. Spain.

portfolio

Jayant Khanuja

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Content

Jayant Khanuja
Interior architect + design researcher
Interaction designer

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● URL's for extra information and videos provided.

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Chapter One.
Introduction-Voronoi Geometry

A Brief HIstory
2D Voronoi
Centroidal Voronoi Tessellation
3d Voronoi
Other types of Voronoi

Chapter two.
Voronoi Geometry in nature

Dragonfly wing
Soap Bubbles

Chapter three
Understanding Algorithms as a tool in Design

Algorithmic Techiniques

Spiralling
Packing
Weaving
Blending

Chapter four
Tessellation/Tiling

Cracking
Flocking

Understanding Voronoi algorithm as a tool for tessellation

THEORETICAL FRAMEWORK

Case Studies.

Chapter five - Dragonfly installation

Chapter six - Water Cube Pavillion

Chapter seven
Voronoi Algorithm in interior scale
Case Studies.

C_Wall

Smart Cloud

Vessel Chair

Paradise Pavillion

ANALYTICAL FRAMEWORK

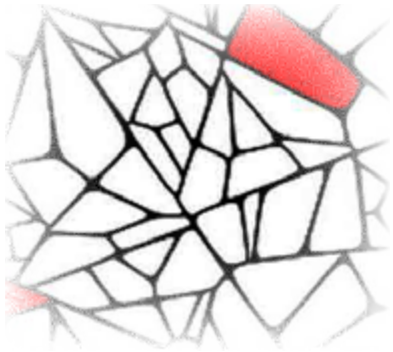
Chapter eight
Investigation into Digital methods and manufacturing

Chapter nine - Conclusion

Voronoi algorithm + Design

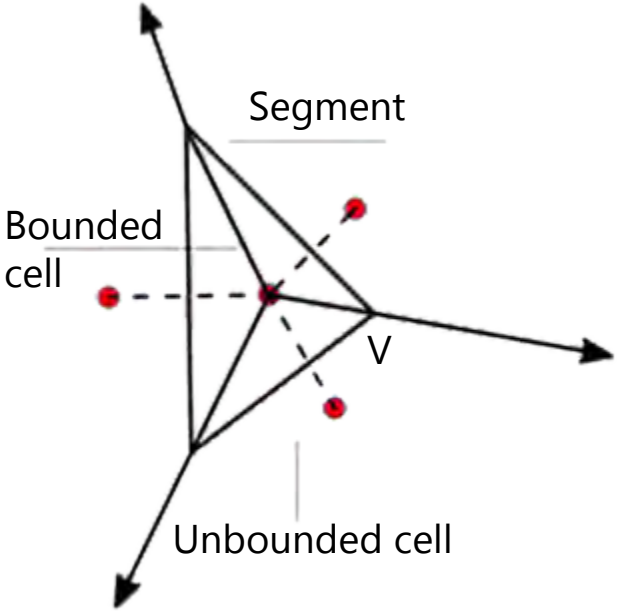
Dissertation by Jayant Khanuja 1703 S I.D

Understanding algorithms in design with refrence to Voronoi diagrams



Dissertation
Submitted to the Faculty of the
Interior Design, CEPT University.

Guide : Architect Abhishek Bij.



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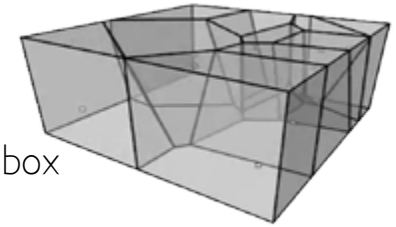
Research thesis

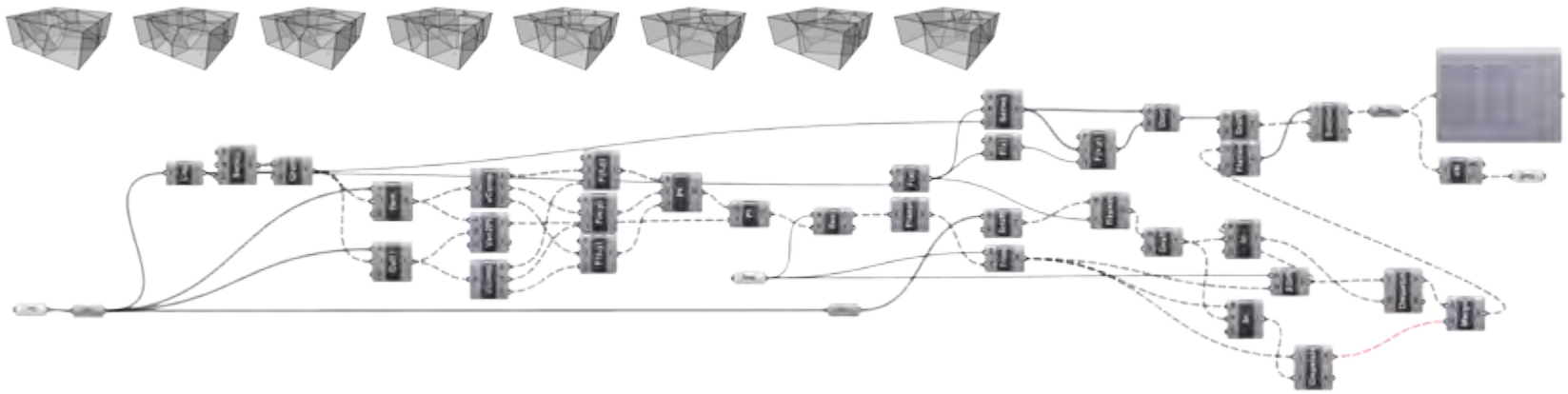
An algorithm is not only a computer implementation, a series of lines of code in a program, or a language, it is also a theoretical construct with deep philosophical, social, design and artistic repercussions.

http://issuu.com/jayantkhanuja/docs/thesis-voronoi-algorithms-by-jayant

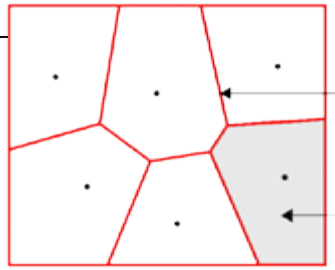
Final Output
3D Voronoi of the random set of points.
The black spheres are the points(highlighted)

The output is confined with respect to the bounding box defined at the earlier stage



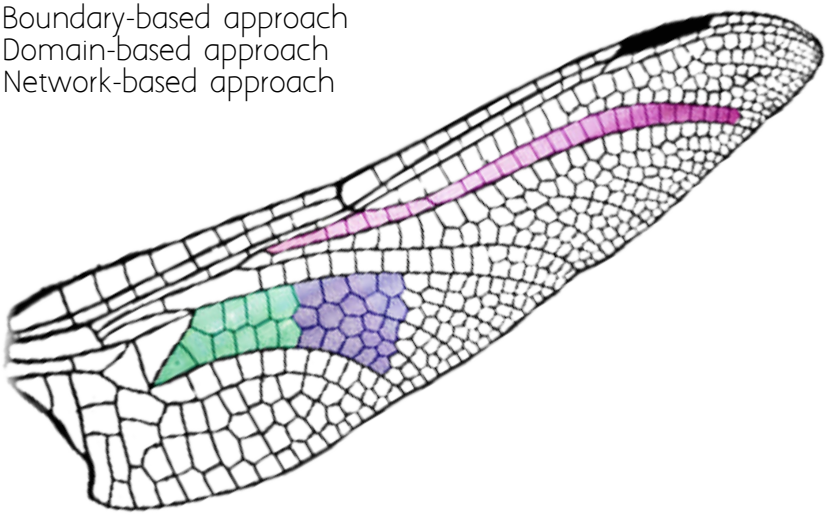


voronoi network

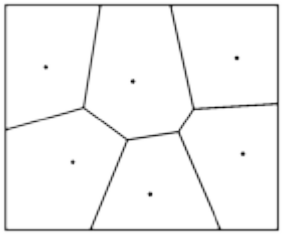


ANALYSING VORONOI:

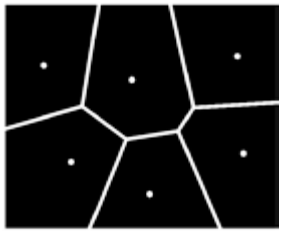
Boundary-based approach
Domain-based approach
Network-based approach



Cells in a single row between two ribs.
Cells in two rows between two ribs.
Cluster of cells.



boundary



domain

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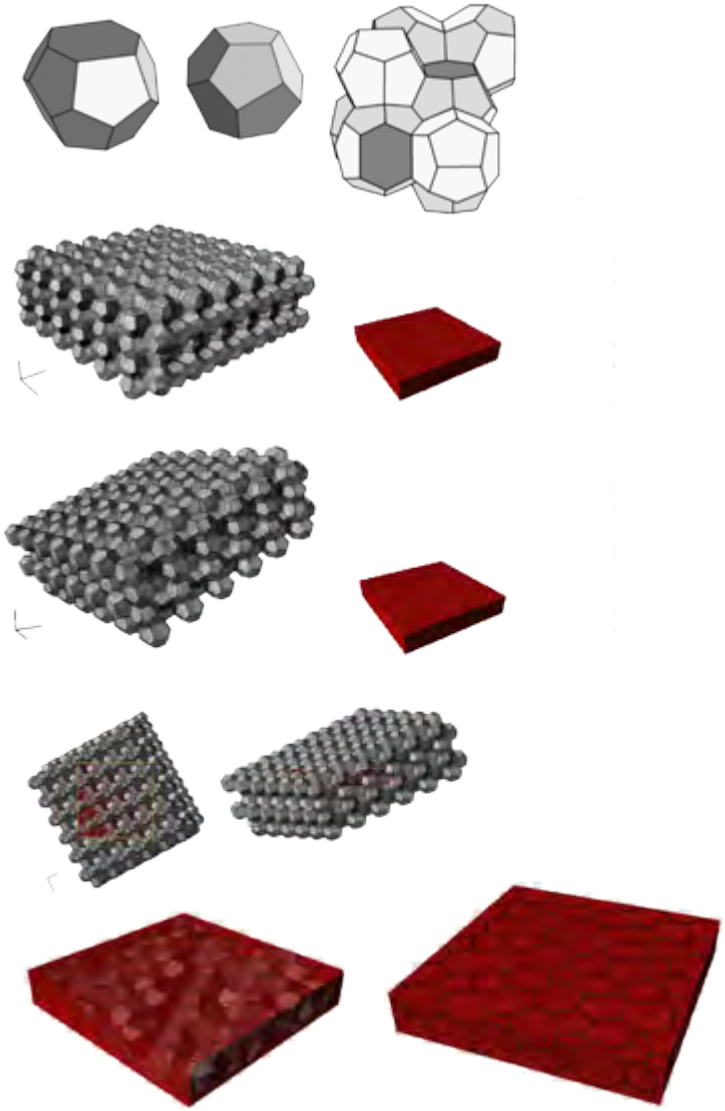
In order to understand the output of Voronoi tessellations in design, these are some defined design variables that are taken into consideration.

Materialising information.
Material Optimization.
Structural Performance.
Variety Production.



In spite of its complete regularity, when it is viewed at an arbitrary angle it appears totally random and organic.

Based on two 12-sided and six 14-sided polyhedrons, the cells are packed together in three-dimensional space to infinity. This repeating unit tiled in space is then rotated and cut along prescribed axes along the exterior to form the exterior geometry of a box, and then the interior cells are sliced to form the large interior spaces for the swimming facilities, etc. The polyhedron surfaces were then replaced with the building membrane and the edges became structural steel tubes. Where the steel members meet one another they are welded to large spherical steel nodes to form solid moment connections.

In Water Cube Pavilion the application of Weaire-Phelan structure was initially for the purpose of achieving a particular design metaphor, but it not only helped the project to achieve a desired look but it also affected the overall strategy of the project. Eventually it resulted into structural performance of strength for the skin. It optimized the material that was used for the outer structure, though not desired initially but this variable can be seen as the most affected due to the application of Voronoi algorithm. Thus in this project the boundary based approach is very evident.

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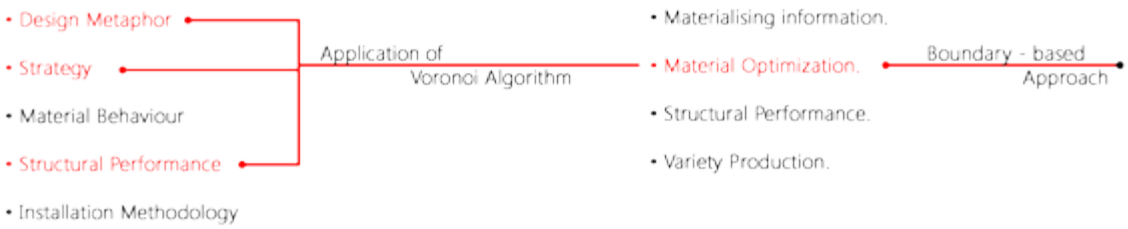
Based on the study of Water cube pavilion, in this project Voronoi algorithm is applied as a design metaphor, but except that it also helps in material optimization.

Type of Voronoi Algorithm used - Centroidal Voronoi Algorithm.



Application - 3 dimensional.

Maximum affected category Strategy.
Material Optimization.

Defined Approach based on analysis - Boundary based approach.

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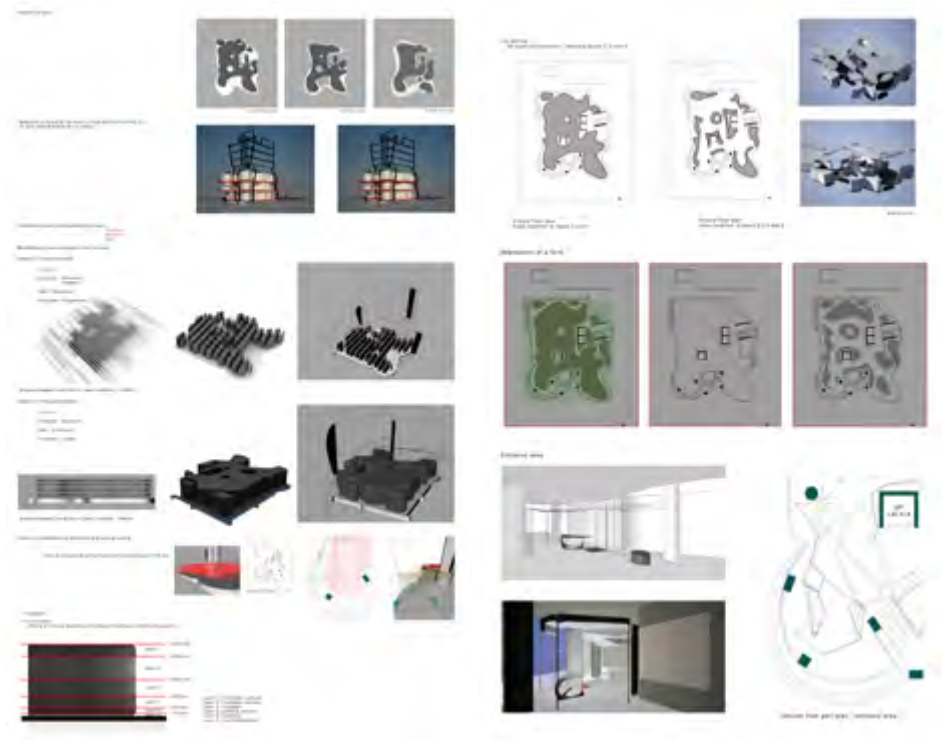

PROJECT : Bombay Art Center
Brief: To design an auction house related to paintings and statues.

Process: The Architectural skin of the built form being in the language of Blobitecture, while the internal structure being a beam column framework there was already a visual conflict.

Interior language debate at first was to whether enchance the skin (language) or the internal structure.

Finally the concept developed through neither responidng to the skin or the internal structure but rather have its own language .
To implement this the idea was to fill the internal volume with mass in such a way thet it doesnot touch anything, and then to carve out elements within the inserted mass.

PROJECT : LIGHT INSTALLATION
Extra curricular

Brief: To make an installation in a double height volume for CEPT Festivals.

Idea was to create floating structures.

Implementation: Insert tubes inside a black box from all four sides and the box is lit from inside letting the light flow inside the tube.

PROJECT : HOBBERMAN SPHERE
Extra curricular

Brief: To understand the geometry behind hobberman sphere and the replicate it in form of physical model

Process: Understanding existing sphere in terms of geometry and computing it digitally.

Laser cutting laminate sheet based on the generated drawings.

Understanding the junctions and details.

Finding a solution to make these detail junction for this scale.

Using paper rivets for the details and rotation movement.

OVERALL DIAMETER:
In closed condition : 300 mm
In open condition : 600 mm

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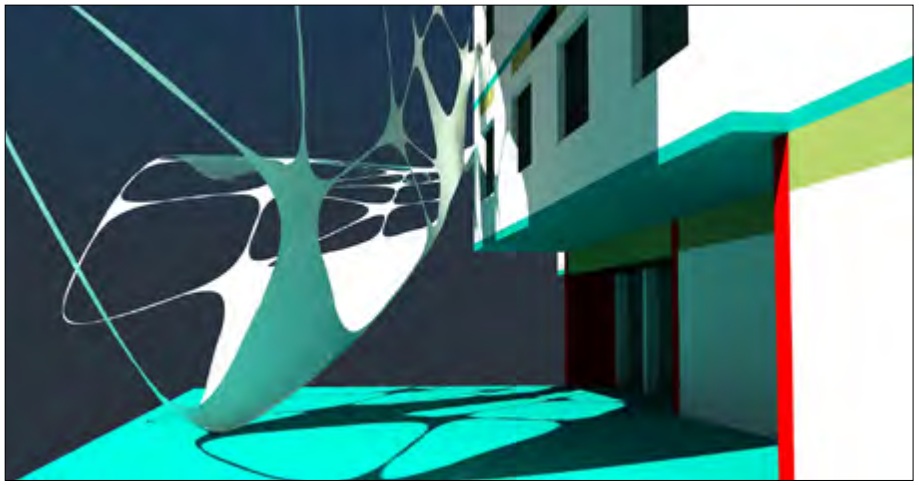
PROJECT : Movie made in School refecting the lifestyles of students
Team partner: Vineet Agarwal
Priya Shah

Poster which was released in parts to maintain the aspect of something new which went on for 12 days

Masks/Costumes and stage were made for the movie.

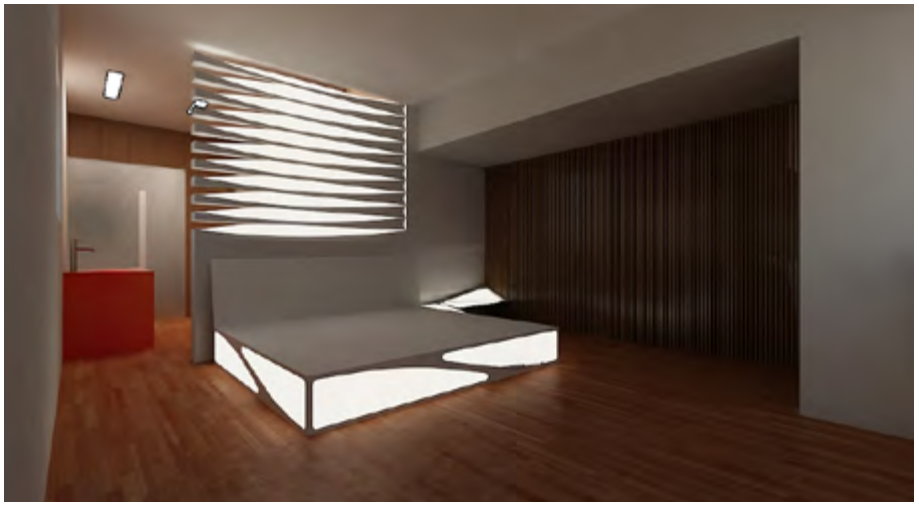
Conceptual Entrance View

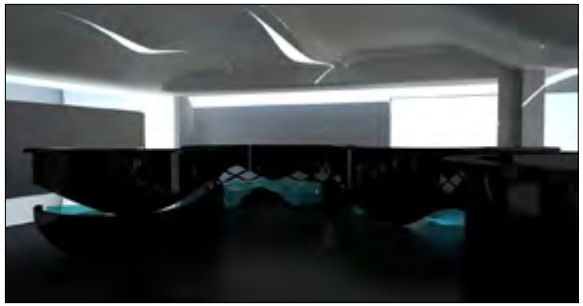
Hotel Bhaskar Palace
Location : Hyderabad, India.



Kitchen View

Residential Appartment
Location : Mumbai, India





Sitting area View

Lounge
Location : Hyderabad

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Office Training - 3rd Semester
sP+a Architects
22-C Off Turner Road,
New Kantwadi Road
Bandra West, Mumbai -400050

Areas Explored:
Physical modelling.
3d modelling.
Rendering.
Site execution,

Duration : 4 months.
Softwares explored
Autocad.
Rhinoceros.
Vray.

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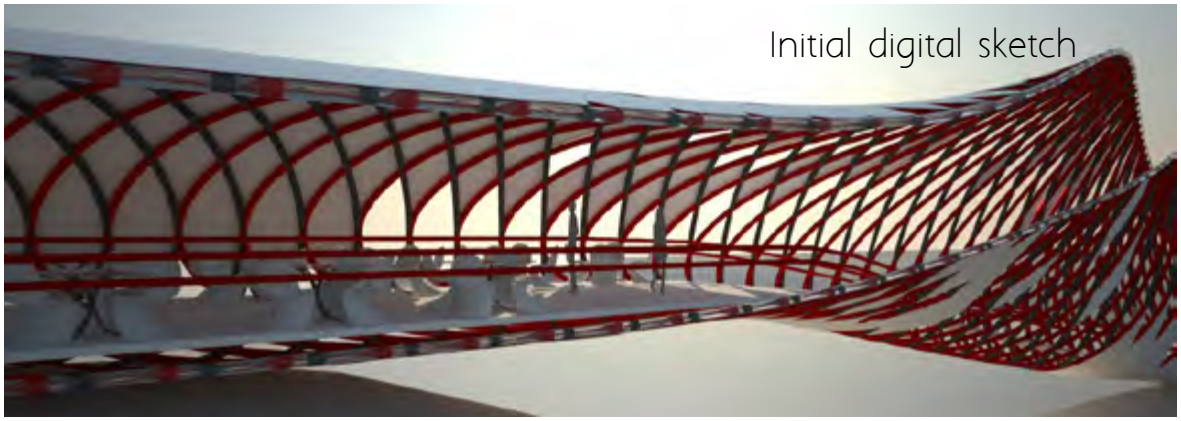
Sketching

Abstract
Sketches.
Pen sketches

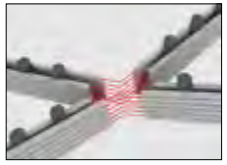
Physical model Photographs

Initial digital sketch



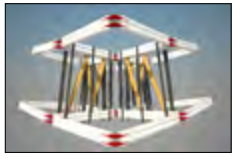
Realistic Renders

Detail Explorations



Rhombus connection detail Option 1

Rhombus connection detail Option 2



Rhombus Overlapping Option

Rib connection detail

Logic : Twisting of ellipses and shifting the central line of axis.

Materials : Bamboo for the rings
MS plates for the connecting details

Basic components : Ribs
Connectors

Total number of Ribs : 28

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Position : Assistant Designer
Duration : February 2012 to February 2013

andblack design studio
A-71 Orchid Woods,
Corporate Road, opp. Vodafone Office, Prahlad Nagar, Ahmedabad 380015

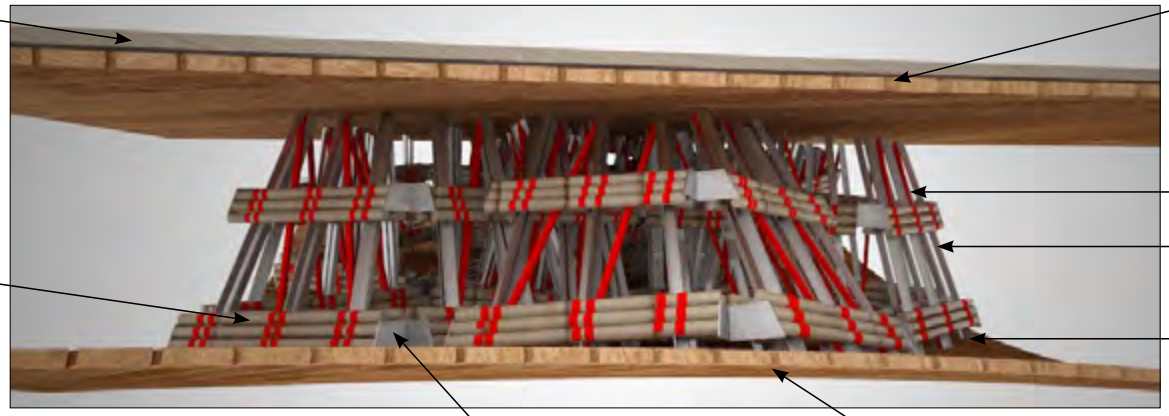
Areas Explored:
Physical modelling.
3d modelling.
Rendering.
Site execution,
Simplification and analysis of complex forms.
Scripting.
Logic building.

Project Name :
Eco Tourism Center
Site Location :
Kevdi, Surat Gujarat

Mainly involved in developement of the bridge.

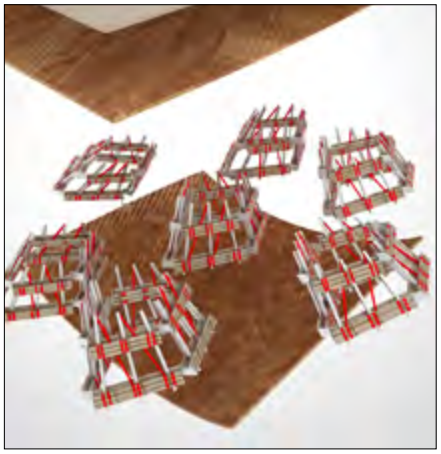
Size of the bridge :
Span : 52 meters
Width : Diameter of ellipse 9 meters

Analysis and practical assesment in Rhinoceros

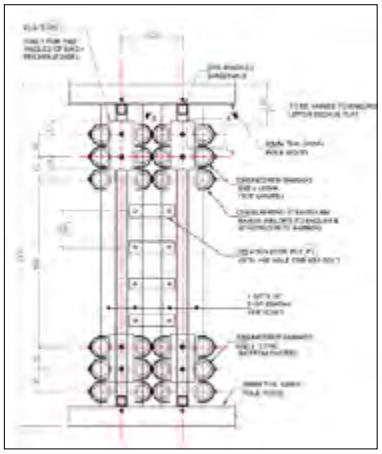


View showing the lower deck area

On Site photographs for other parts of Site

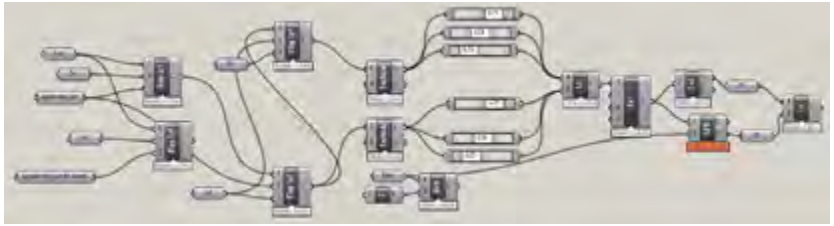


Exploded View of the lower deck area



Refrence Drawing from structural engineer.

Virtual Render of Guest houses on site.



Scripting different Options in Grasshopper.

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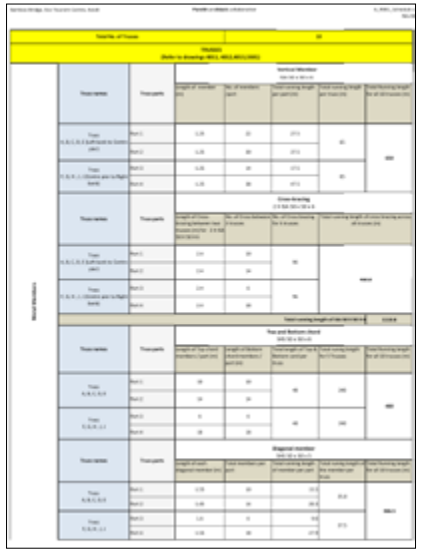
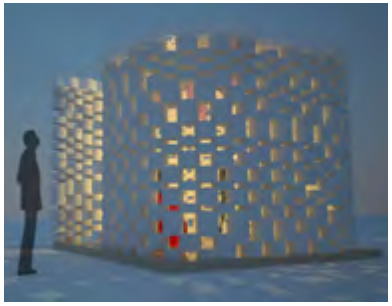


Data sheets for BOQ and wieght analysis

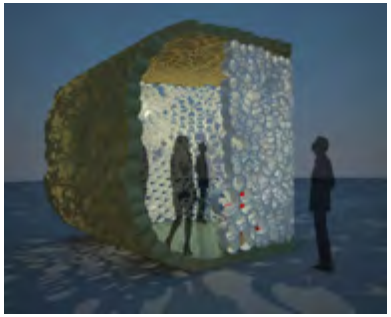
Physical model Photographs

Stacking and interlocking

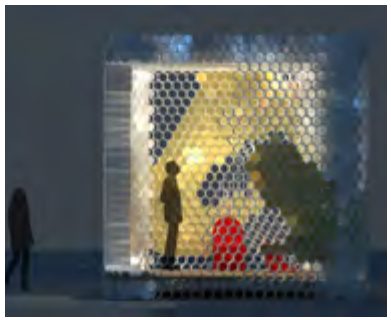
Initial Explorations



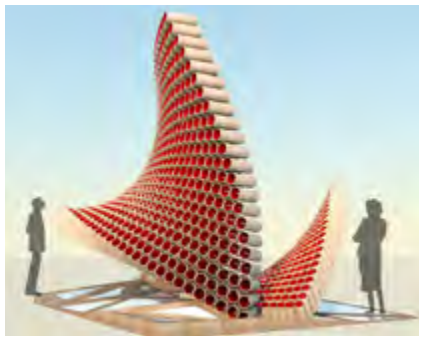
Interlocking and folding



Horizontal stacking and swarm



Form exploration with finalised technique of WEAVING



Realistic Render

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Physical modelling.
3d modelling.
Rendering.
Site execution,
Simplification and analysis of complex forms.
Scripting.
Logic building.

Project Name : Paper tube pavilion
Site Location : Installation

Involved from explorations to execution.

Size of the structure
Width : 4 mts x 4.5mts

Logic : Weaving as a dynamic phenomenon

Materials : Papertubes
Wood for base

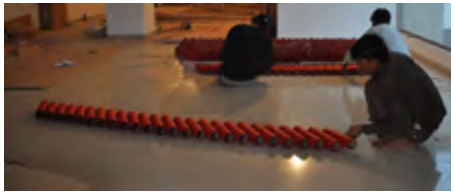
Basic components: Papertubes of diameter 75mm.

Length 290mm

Total number of tubes : 4500

Execution trial in Ahmedabad.
Photographs

Papertube with metal insert in some of them



Weaving of a single strip with SS cable.

Further weaving of these strips with eachother to create an adaptable and responsive surface

Detailing and Joinery

Hollow rivets to be fixed on the holes on tube to avoid friction-al wear and tear

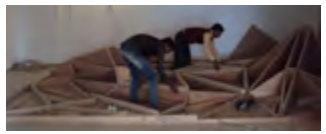
Wire hull used to hold the cable from sliding inside.

2mm diameter SS cable

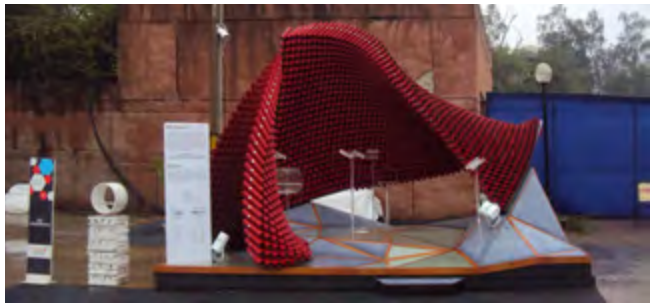
Washer placed at critical end conditions to stop the wirehull from tearing the tube due to pull and strain

End conditions of each tube

Making of the base



Final Output



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Event - IDF 2013 Delhi.

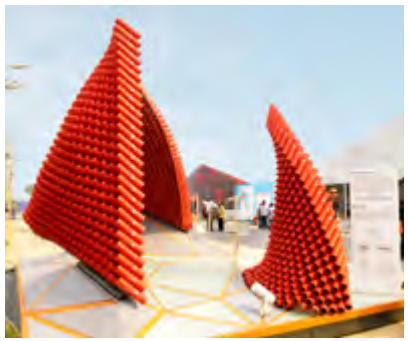
Execution and assembly was done in Ahmedabad to check and manage the structure.

The component aspect thus came into play as the whole structure was suppose to be moved to Delhi in a very modular system.

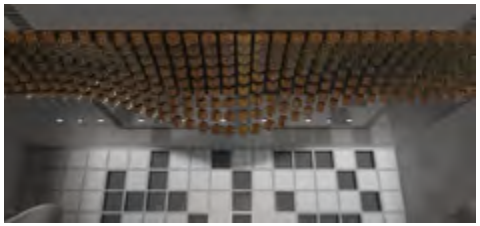
Thus the two surfaces and the base were constructed in such a way that these surfaces can be loosened and folded and the base can be open in parts.

Time constrain on the execution part on Site(i.e IDF) determined and guided the phases of asembly.

Transportation factors also played an interesting role in the later stages

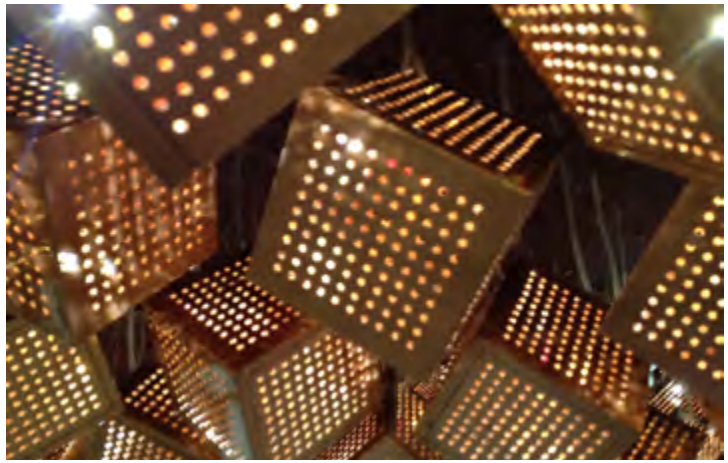


Virtual Renders : Explorations

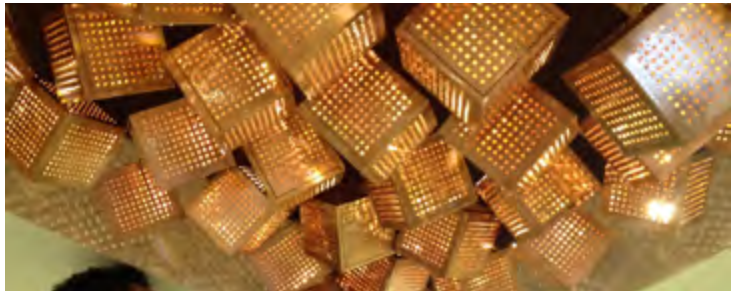


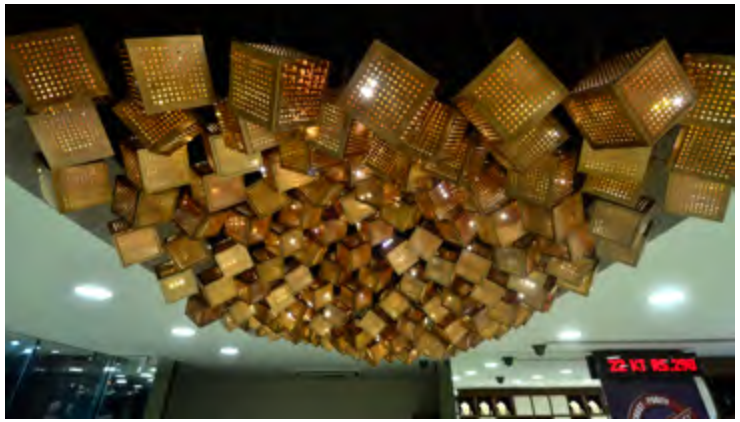
Process Photos

On Site Images



Each cube has a led lights fit on the faces from inside.
One face was left openable for maintenance.





The installation was completely assembled on site and was supported on boxes on each side. Once all the cubes were tied to the perforated sheet of plywood , it was lifted and assembled in the ceiling

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andblack design studio
A-71 Orchid Woods,
Corporate Road, opp. Vodafone Office, Prahlad Nagar, Ahmedabad 380015

Areas Explored:
Physical modelling.
3d modelling.
Rendering.
Site execution,
Simplification and analysis of complex forms.
Scripting.
Logic building.

Project Name : Forever Showroom
Location : Ahmedabad CG Road

Involvement : Chandelier

Criteria : To enhance the overall ambience of the showroom to generate an appleaing and attractive experience for the customers. Also to keep in mind that the impact doesnot overpower the products i.e jwellery

Tasks : Virtual Exploration
Physical Manifestation.

Components : Copper cubes Each rotating at a different angle

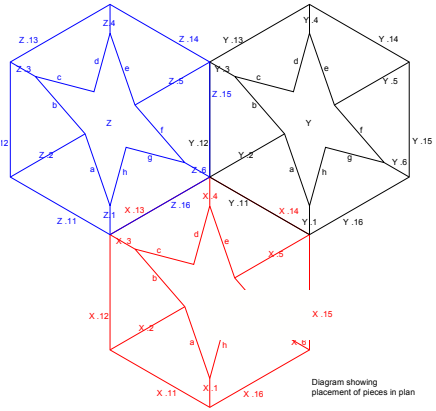
A single geometry. Profile is of Hexagon.

For tagging purpose all the pieces were given a particular name, to make it manageable in layers.
There are - main surfaces
upper surfaces.
internal connectors.
overlapping connectors.
and triangles.

The range was of hexagons, pentagons and octagons.

Input given in the script of curves

Output of unrolled surfaces in chart form with tagging.



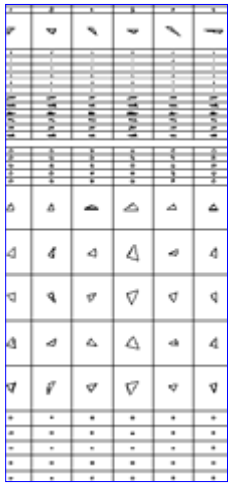
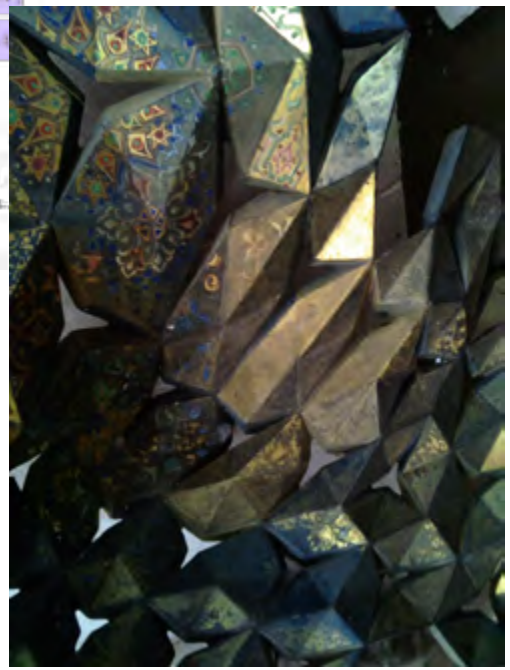


Chart and Diagram explaining the order of tagging.

First layer. Installation made out of mdf.



Final Output : Artists from the regional parts of India creating motifs and patterns on the structure.

Second layer : A layer of putty applied onto it.

Jayant Khanuja
Interior architect + design researcher
Interaction designer

Position : Principal Designer
Company : Algo Design Studio.
Duration : March 2013 to current
As a consultant for andblack design studio

Project Name : Muquarna.

Client Brief : To come up with a generative ceiling , having seven modules which represent seven nights.

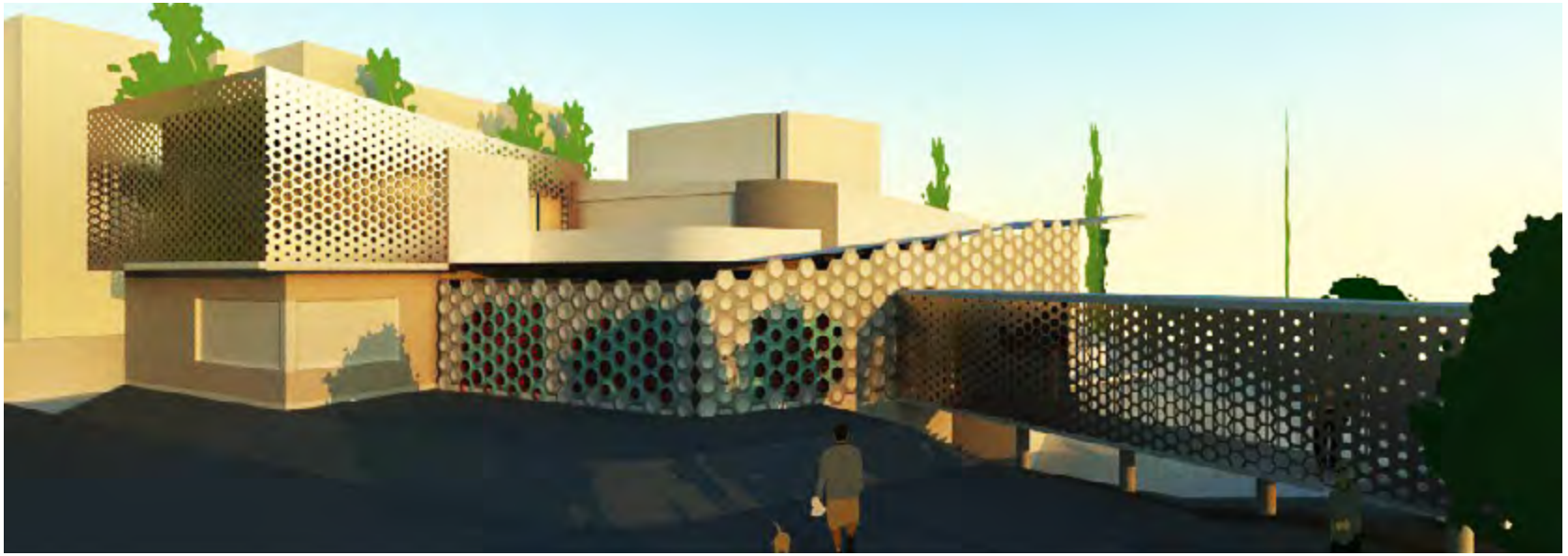
As a consultant the responsibility was to come up with such a script in grasshopper that when used it takes just a modulated surface as an input.
The script generates the final design with a few flexible variables and also unrolls each and every piece with there particular tags.
3d printing not being an option , the complete dependency was on laser cutting. Each installation consisted of almost 100 geometries and each geometry consisted of 36 pieces.

Thus 3600 pieces for each installtion was suppose to be unrolled and tagged to get the laser cutting done.

Jayant Khanuja
Interior architect + design researcher
Interaction designer

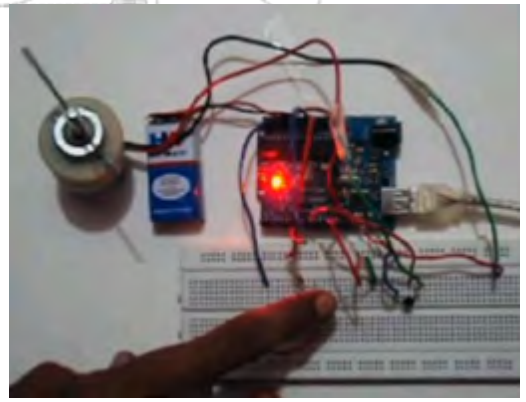
Position : Principal Designer
Company : Algo Design Studio.
Duration : March 2013 to current
As a consultant for andblack design studio

Project Name :
Residence in Surat
Client Brief : To Design a Sensor based facade



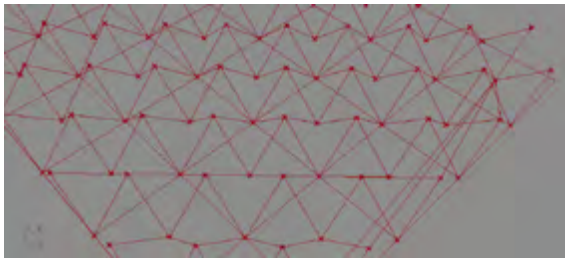
The facade on the central volume was finalised to be a controlled facade with arduino based mechanism. which opens and closes alongwith the movement of sun.

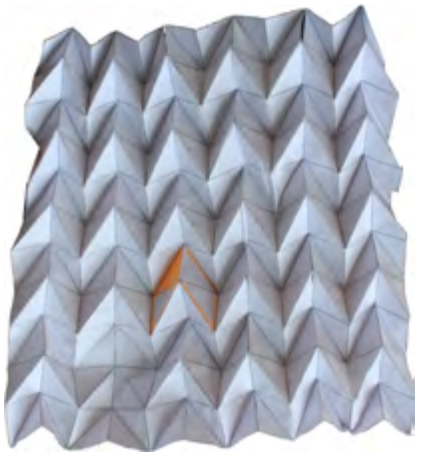
After a lot of iterations with mdf models.
This prototype was made with MS sheet, to understand the mechanism better.
This movement is suppose to be controlled by a light based sensor through an arduino board for this prototype.
Later a circuit board with more strength is suppose to be made.



Experiments with a DC motor and arduino board.
A few explorations were done with firefly and GH as well.

As a consultant on the facades, the responsibility was to come up with an interesting hexagonal composition for the coverings on the walkway and the upper volume, which was achieved by a logic of point attractor callibrated with the directions of sunlight.





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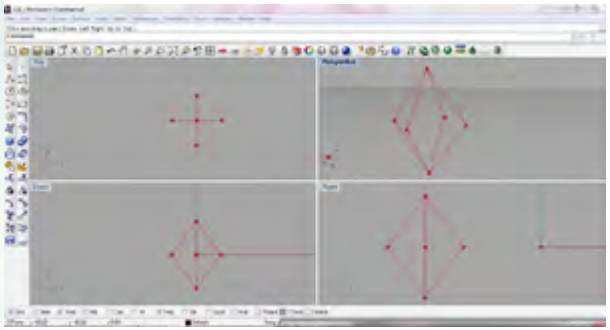
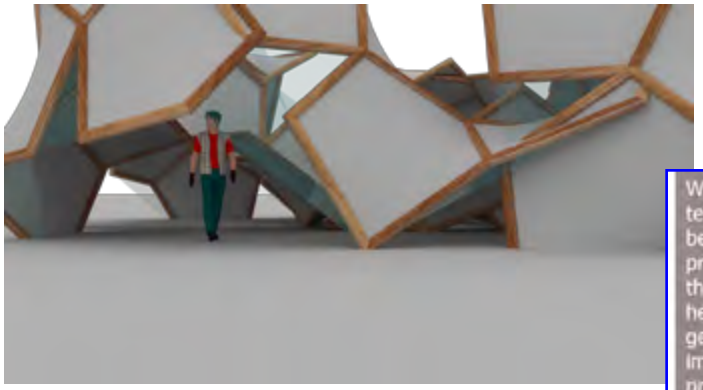


Students work of MIAD batch 2012/2013

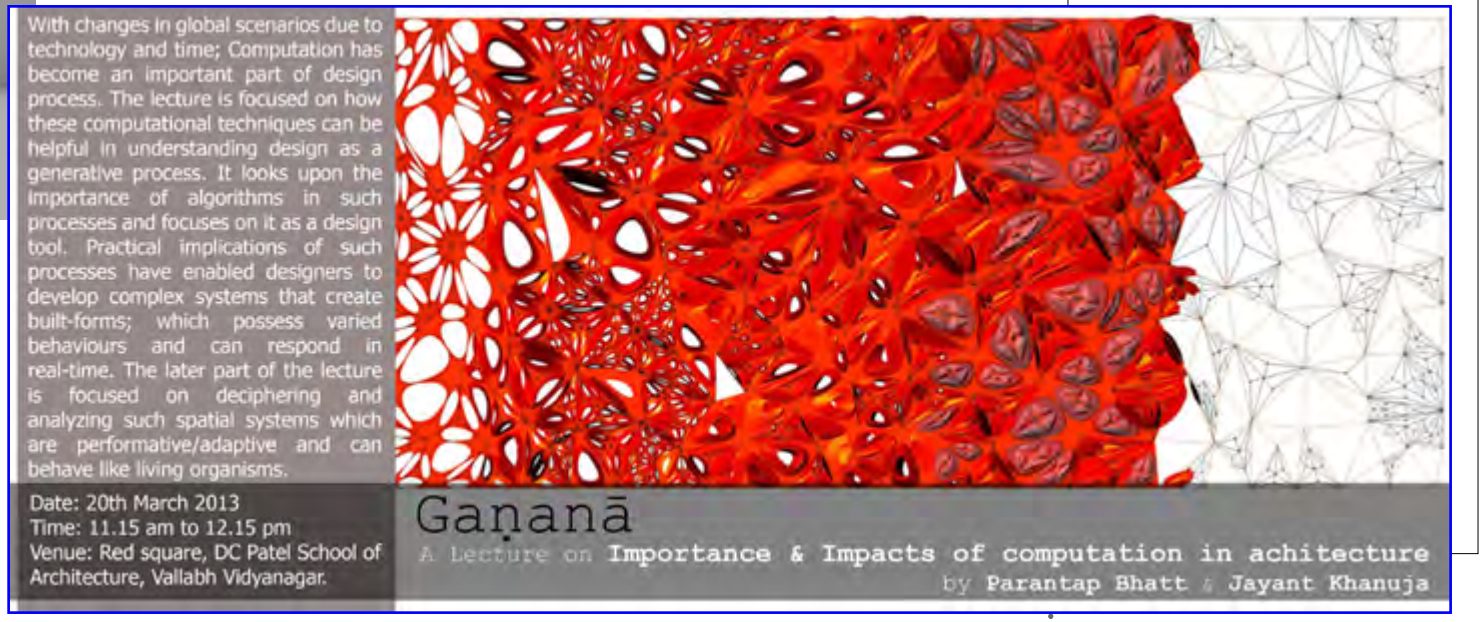
Lectures/Workshops.

Workshops conducted in MIAD 2012/2013, CEPT University for application of digital tools in design.



Lectures/Workshops.

Lecture conducted in APIED on Importance and Impacts of computation in architecture



Jayant Khanuja
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Interaction designer

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School of Interior design
CEPT University Gujrat, Ahmedabad, India.

Visiting Faculty.
CEPT University.
Gujrat, Ahmedabad, India.

Currently pursuing.
Masters In Advanced Architecture
Institute of Advanced Architecture Catalunya.
IAAC.
Barcelona. Spain.

Work at IAAC . Barcelona. Spain.

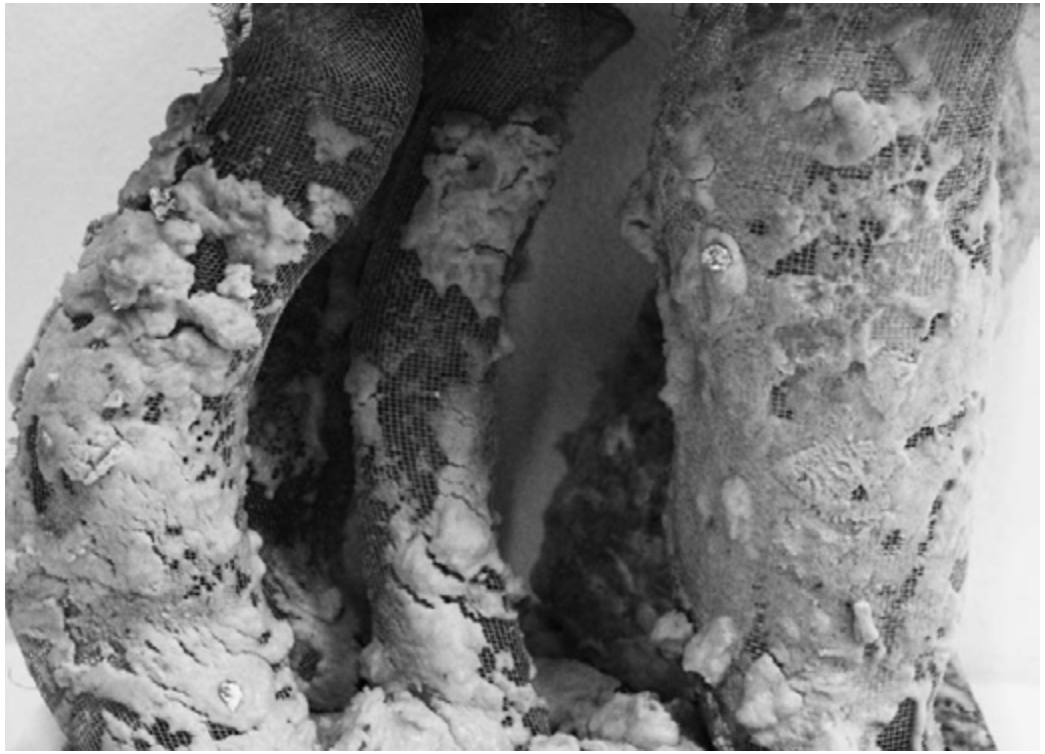
Investigation into Mycellium as a building material

FACADE SYSTEM.

* Can be Changed in realtime in the design phase.
* Usable. Filtered Spaces.
* Can adapt itself to different structures.
* The density can adapt to the structural configuration.

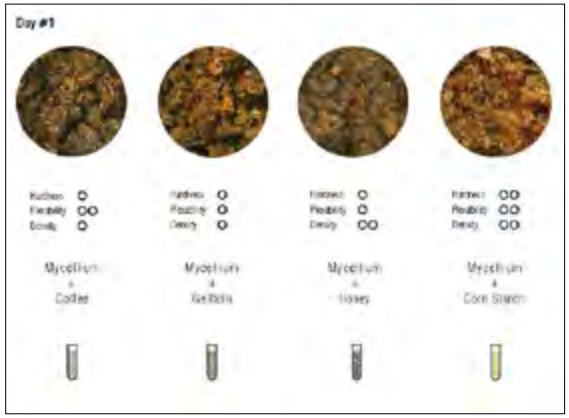
TECHNICUES EXPLORED.

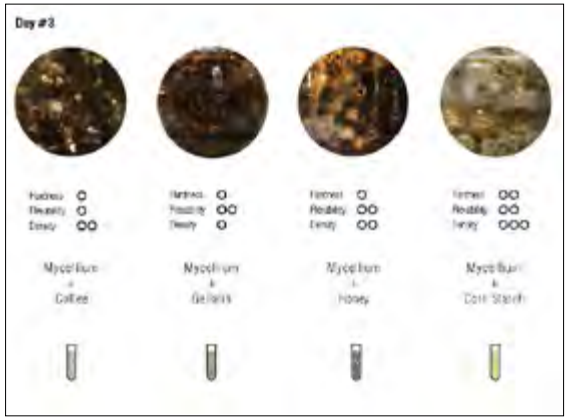
* Spraying.
* Extruding.



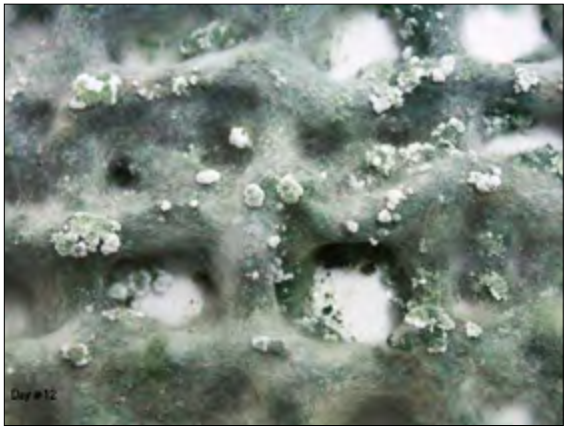
Understanding the potential of mycellium as a material which grows onto the substratum, intitally using it as a growing agent, later decomposes itself into a strengthning agent for the substratum making it a building material by locking its configuration.

Testtube experiments.

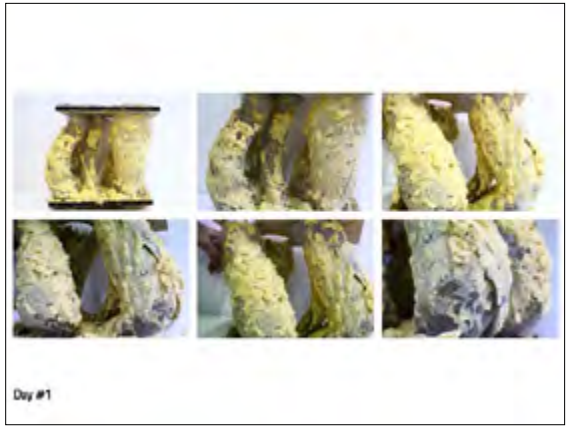


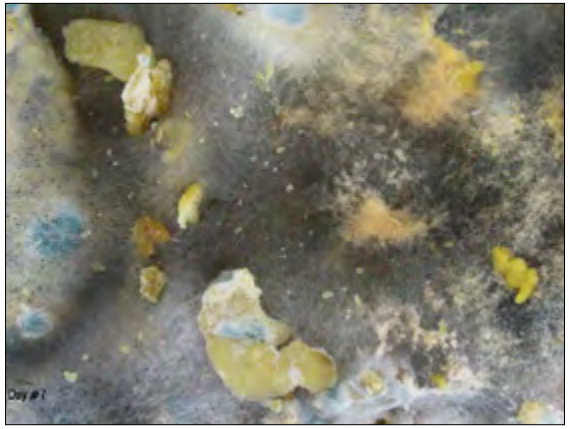


Manual extrusions.



Spraying tests.





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School of Interior design
CEPT University Gujrat,
Ahmedabad, India.

Visiting Faculty.
CEPT University.
Gujrat, Ahmedabad,
India.

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IAAC.
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Complete project details :

http://www.iaacblog.com/maa2014-2015-torre-baro-energy-district-g1/2014/11/torre-baro-energy-district-midterm-group-1-team-7-3/

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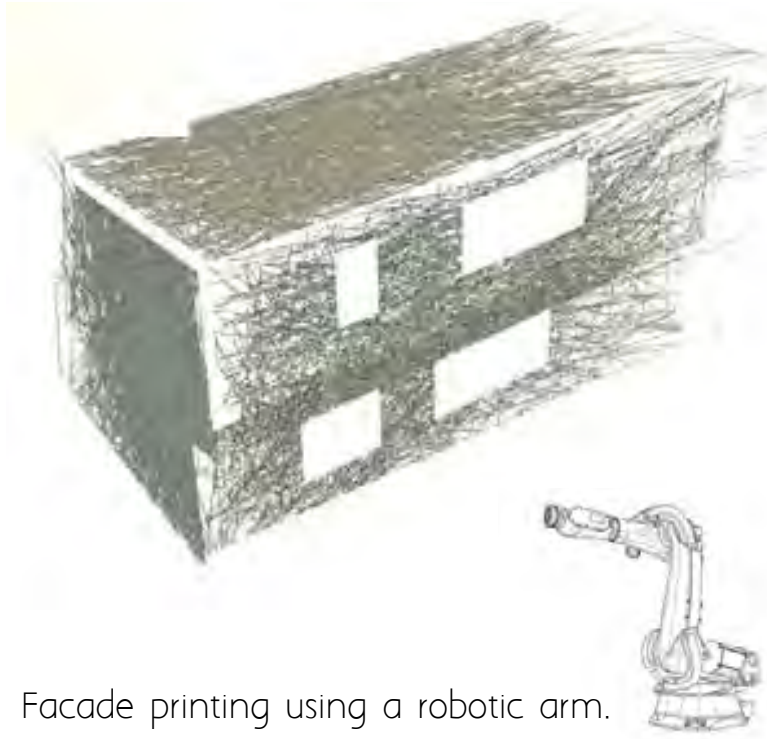


Facade printing using a robotic arm.

1 month

6 months

12 months

Exploring the possibilty of extruding the material using a robot. Each configuration of printing can be altered based on the configuration of facade. Computing the process helps in understanding the context in terms of density of the layer in and thickness of extrusion and number of layers to be extruded. Thus it helps making the system more adaptive and fast in terms of application on an existing facade.

Work at IAAC . Barcelona. Spain.

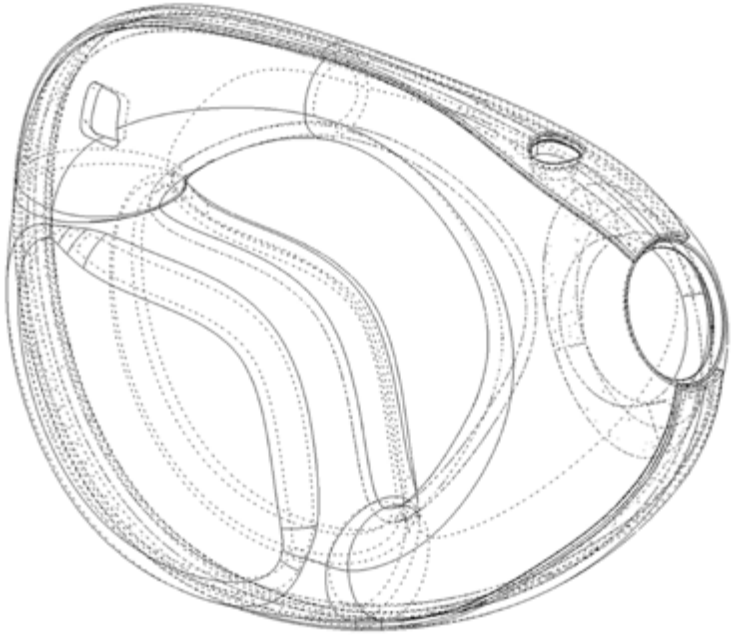
Interaction Design.

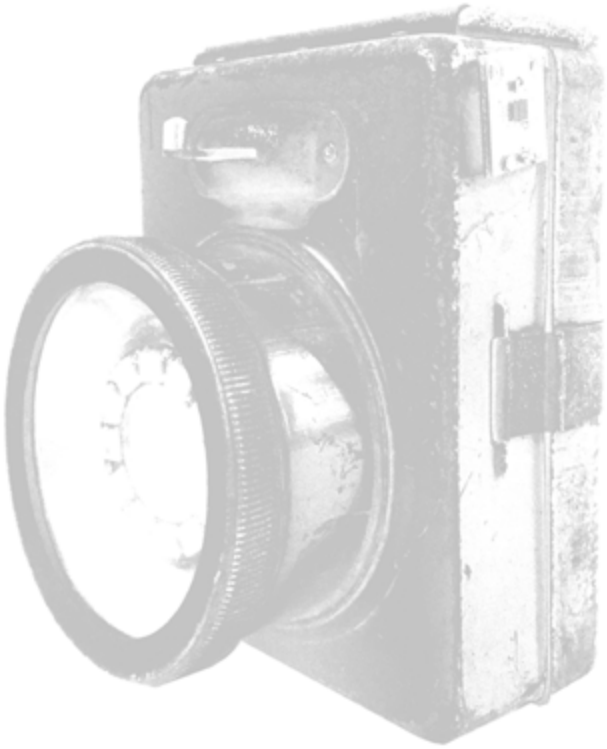
Exploring Embedded Systems.

The work in research line of interation design revloves around the concept of making the invisible, visible.

Project Name : HACK -a- LIGHT

Project Details : http://cyclicprocess.wix.com/interactiveprojects#!services/cee5





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Extension of human senses has always been a tempting proposition.

Hack a light is a similar attempt to make invisible, visible to human eye.

The project is designed in phases and revolves around the idea of hacking a daily usable object and with the help of embedded systems make it a tool for extension of sense to see invisible, or less seen.

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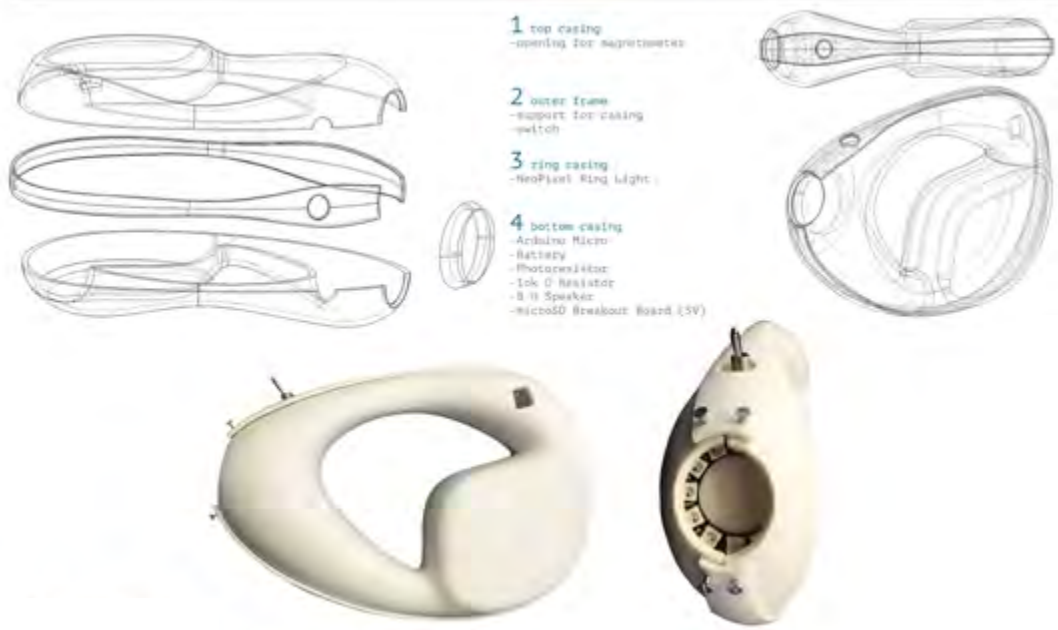
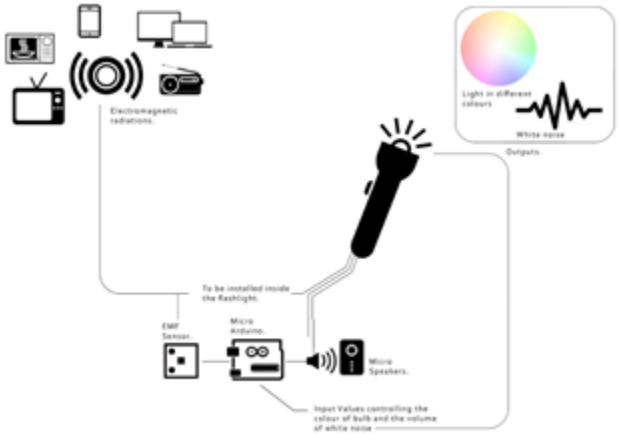
The design.

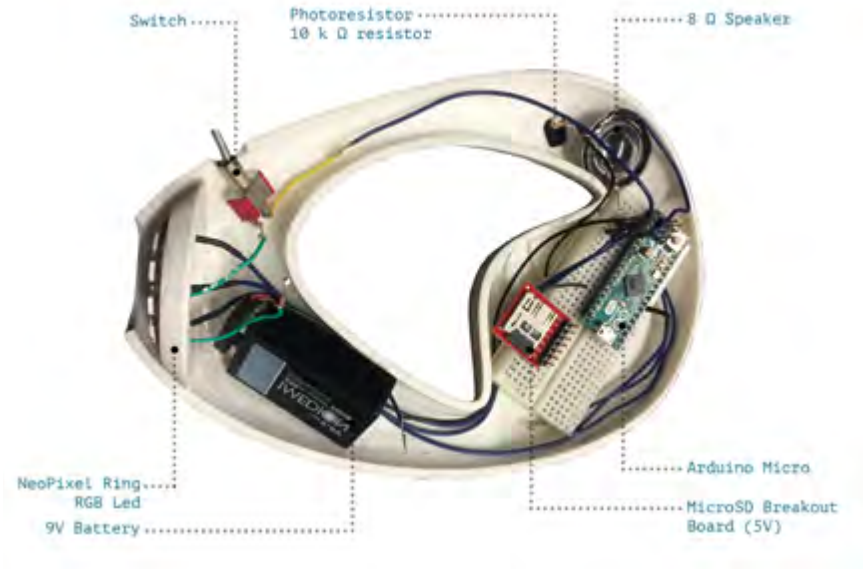


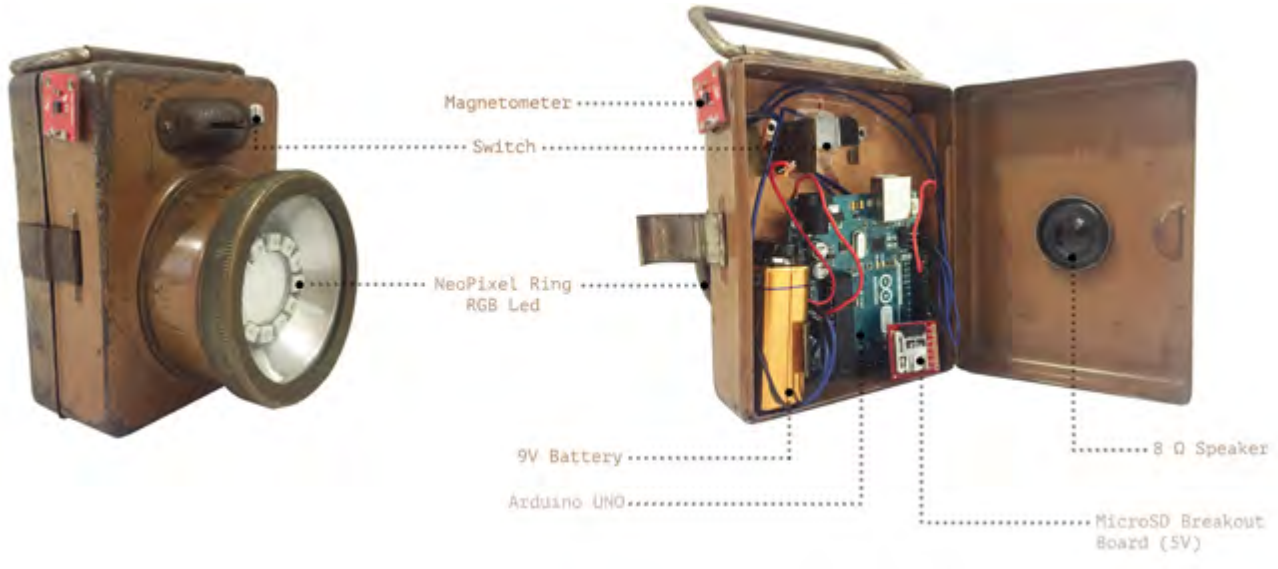
Idea : the beginning of absorbtion



Design brief : To hack an object and be expressive.
Requirements : To make the invisible that surrounds us visible.
Deliverables : Old and new flashlight which reads Electromagnietic waves and projects the readings in varied color ranges.

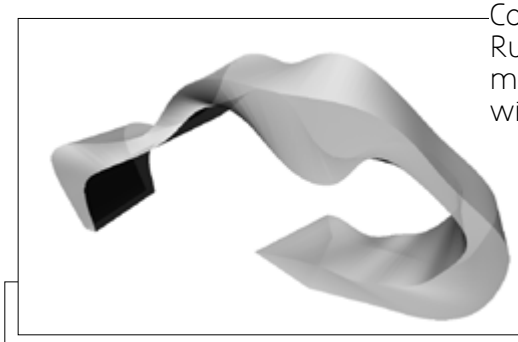
The device.





Electives. Electives being an important medium to ivestigate digital tools, fabrication techniques and embedded systems

Designing Associativity and DIgital Tools.



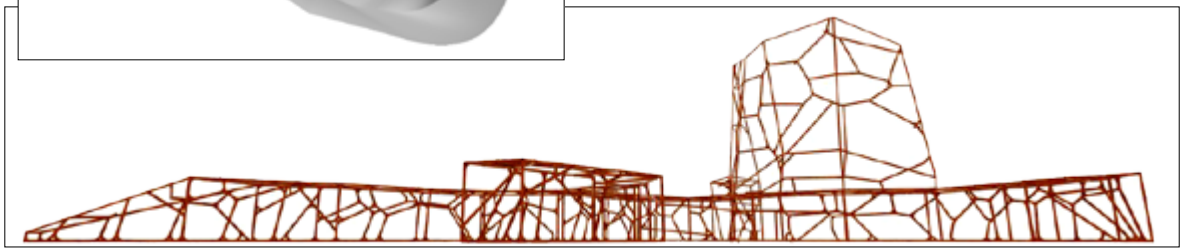
Conceptual Ruled Surface model for Robotic wire cutting

Other work

http://www.grasshopper3d.com/profile/jayantkhanuja

http://issuu.com/jayantkhanuja/docs/map_barcelona_weather_2014

http://issuu.com/jayantkhanuja/docs/the_routes_co-ordinated



Voronoi urban bench. Inter School competition entry

Encrypted Rome.

for complete information:

http://www.iaacblog.com/maa2014-2015-encrypted-rome/2015/03/castelli-2050-economy-of-enough/#more-249

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In the project we presented a different future to Castelli, and the growth or Rome city, This Alternative was the main stream of the society in Israel during the 1950-1970 and is called Kibutz.
Our alternative suggestion for Castelli is based on similar ideas- Bottom Up solutions, Gradual growth, and Socialism.

Videos:

https://vimeo.com/124700513
https://vimeo.com/124697586

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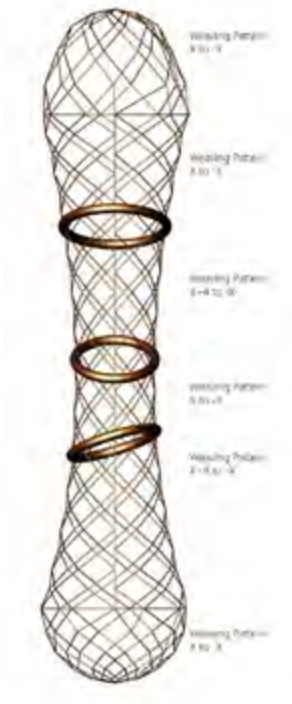
Understanding bamboo behaviour.
Product: lamp



Interactive facade.

Videos:

https://vimeo.com/126061948

Interactive facade is a project working on UV Sensor.

Each panel is painted with electro chromic paint. So when the facade is exposed to sunlight the panels change color based on the intensity of sunlight.

These changes get recorded into an integrated system which triggers the leds in each panel at night. So the LED's change colour based on the recordings of UV throughout the day.

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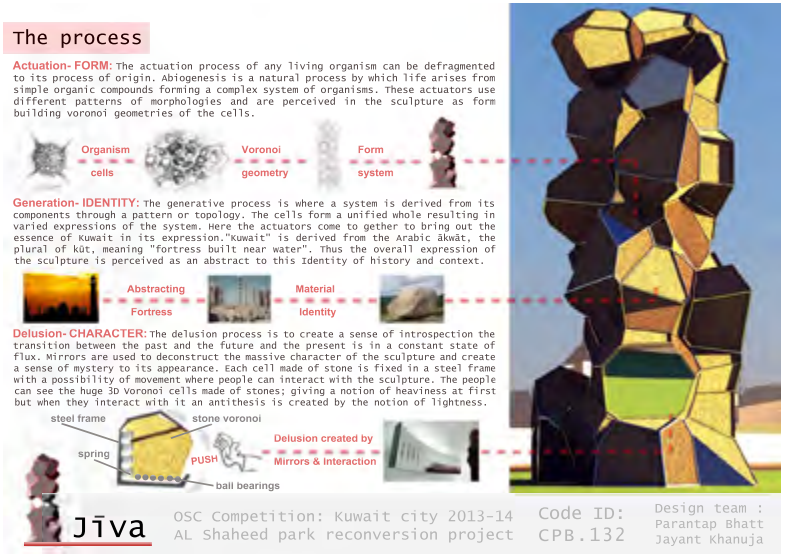
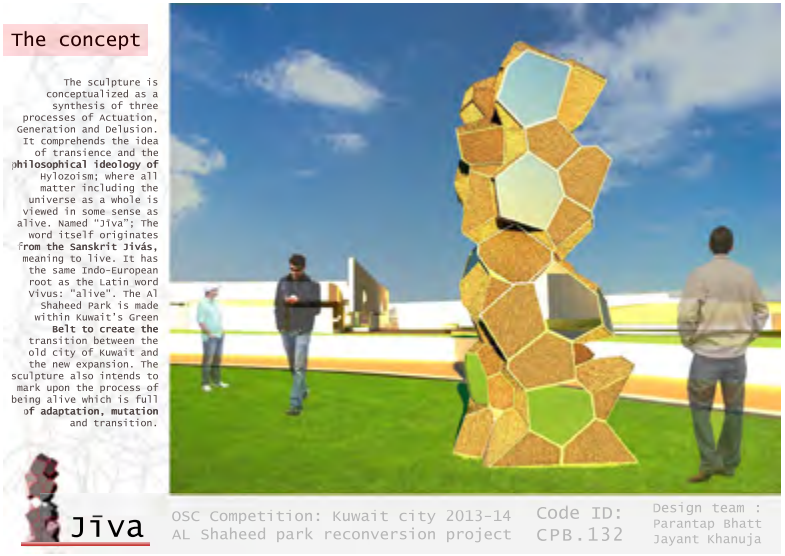
Interior architect + design researcher
Interaction designer

Abstract written for DCA conference 2014.
Entry Selected .

http://issuu.com/jayantkhanuja/docs/jiv_-dca_2014/1

OCS Competition Entry for a sculpture design in Kuwait.





For complete details: http://issuu.com/jayantkhanuja/docs/osc_competition_entry_for_kuwait_ci/1

Interactive canvas: a group project for
http://www.festivaldelaimagen.com/es/eventos/exposiciones/2435-membrana-telematica
Video : https://vimeo.com/126178709

Explorations with processing:

Currently working on a project of creating a physical environment made out of fiber optics.
These fiber optics are used to transmit data and illuminate . This physical environment is controlled by a virtual interface where people from any part of the world can interact and change the conditions of this physical environment.
They will be given a live feed of the changes that happens in this physical environment.

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Thank You