

# EDUARDO CHAMORRO

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address: Seoul,South Korea  
telephone : +34 626 54 3000 +82 1041486576  
email: eduardochamorromartin@gmail.com



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ARCHITECT  
DESIGNER  
MAKER



un mercado en colaboracion

DO IT YOURSELF

walls structures construction structures installations sustainability

SITUACION

# Final Thesis-Colaborative architecture

**WAVES FESTAS**

**ELEVATION MODULES**

Todos los doble pisos tienen para tener una cantidad de tiendas, atrio, sala para los baños, servicios, y para los proyectables para su uso en la construcción, pueden ser reutilizadas o convertidas en viviendas y decidirse tanto en viviendas nulas como para motor.

**TRUSS SYSTEM**

**FENCE SUPPORT**

**MODULAR SIDINGS**

La arquitectura es el lugar de acogida de estos límites que atraviesan en diagonal y horadan las producciones materiales hasta invadirnos.

La geometría complementaria Juan Navarro Baldeweg

**ARCHITECT DESIGNER MAKER**

EDUARDO CHAMORRO MARTIN Convocatoria Julio 2014 PROYECTO FIN DE CARRERA

un mercado en colaboración

• DO IT YOURSELF

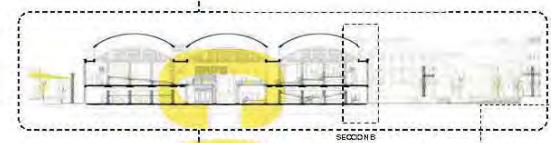
• análisis • arquitectura • construcción • estructura • instalaciones • sostenibilidad

CONSTRUCCIÓN / FACHADA

# Final Thesis-Colaborative architecture

El sistema de fachadas móviles del proyecto tiene el sistema de truss estructural H160 con un ancho de 1,00 x 2,20 que mediante el diseño de un nodo tridimensional permite la rotación de los paneles móviles en su eje longitudinal y transversal así como la apertura y cierre de las juntas blindadas permitiendo así un multiplicador de configuraciones adaptándose al uso.

Se instalarán paneles blindados de seguridad para su protección exterior así como se dispondrá de un legendre de valla de seguridad de 1,80 m de altura y 1,20 m de ancho que protegerá el espacio interior que ocupa más de 0,5 x 0,2 ancho dividido en tres secciones y protegidas con blindamiento y aislamiento.

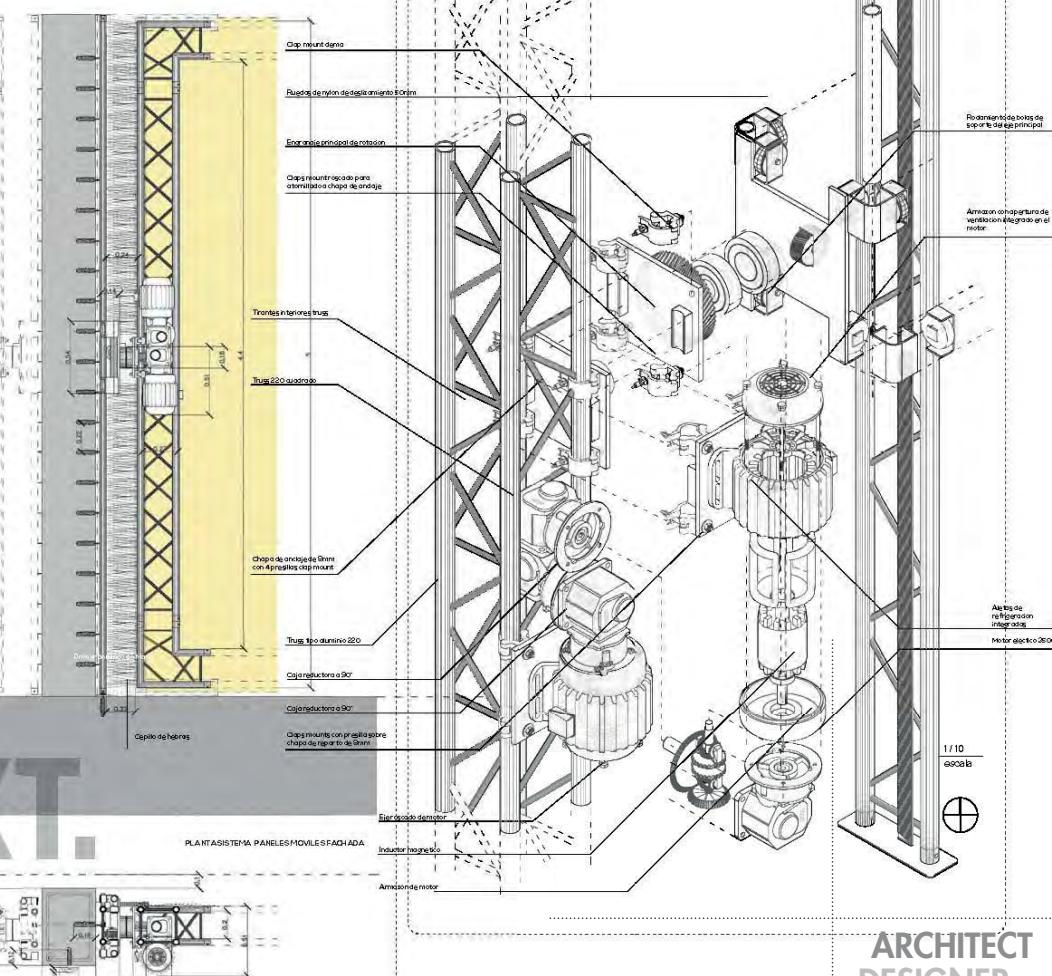
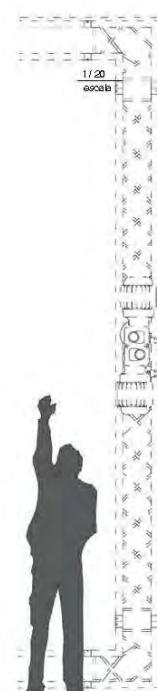
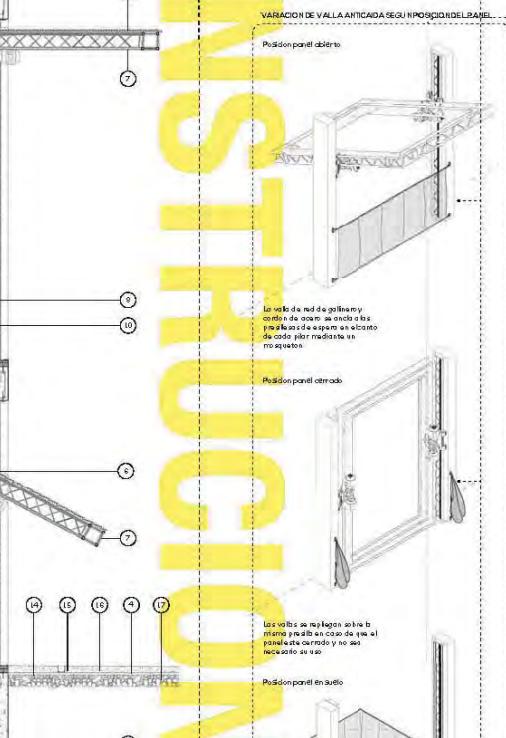
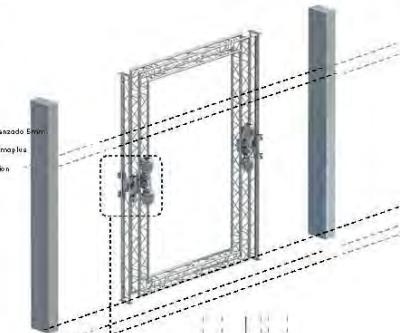


# COLABORACIÓN PANEL EXT.



- 1 Valla acero galvanizado
- 2 Vidrio blindado con espesor 5 mm
- 3 Cerradura Tresillo M16x1,0
- 4 Hormigón aligerado blindado
- 5 Truss H160 x 200 longitud
- 6 Lona recubierta de caucho 90 g/m<sup>2</sup>
- 7 Truss crecendo H160 x 220
- 8 Argolla espesura 90x45mm
- 9 Foco reflector de 200W
- 10 Huella metálica con cordón de acero trazado Elemento
- 11 Suelo hidráulico para fábrica de ladrillo Hormigón
- 12 Riel de poterillo 0,2mm extensión/dimension
- 13 Agujero de vidrio 100x100
- 14 Escocido de piedras
- 15 Cojinetes de desgaste con ruedas Ulma
- 16 Ayuda de arrastre: rueda con tornillo de sujeción
- 17 Gruetell Desco 22
- 18 Durante la instalación de madera
- 19 Muro portante 600 mm
- 20 Llaves Impresión libertad Desco se adapta a la medida con llaves normales

## NUDO MECÁNICO MÓVIL DE FACHADA

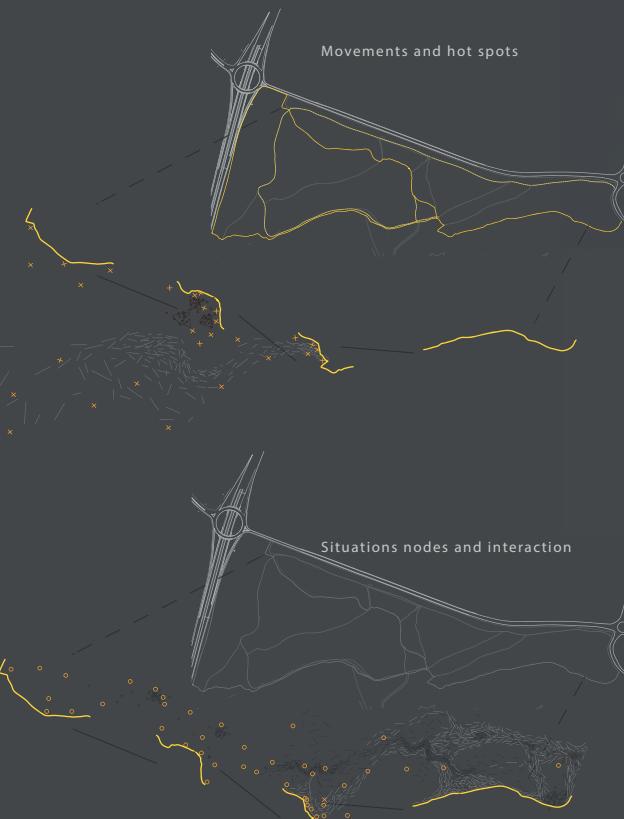


## environmental sustainability

To propose any space is necessary an exhaustive analysis of the surroundings, specially when that space is a landfill that seems empty on a superficial look but it is full of environment inputs.

### Getting the hidden information

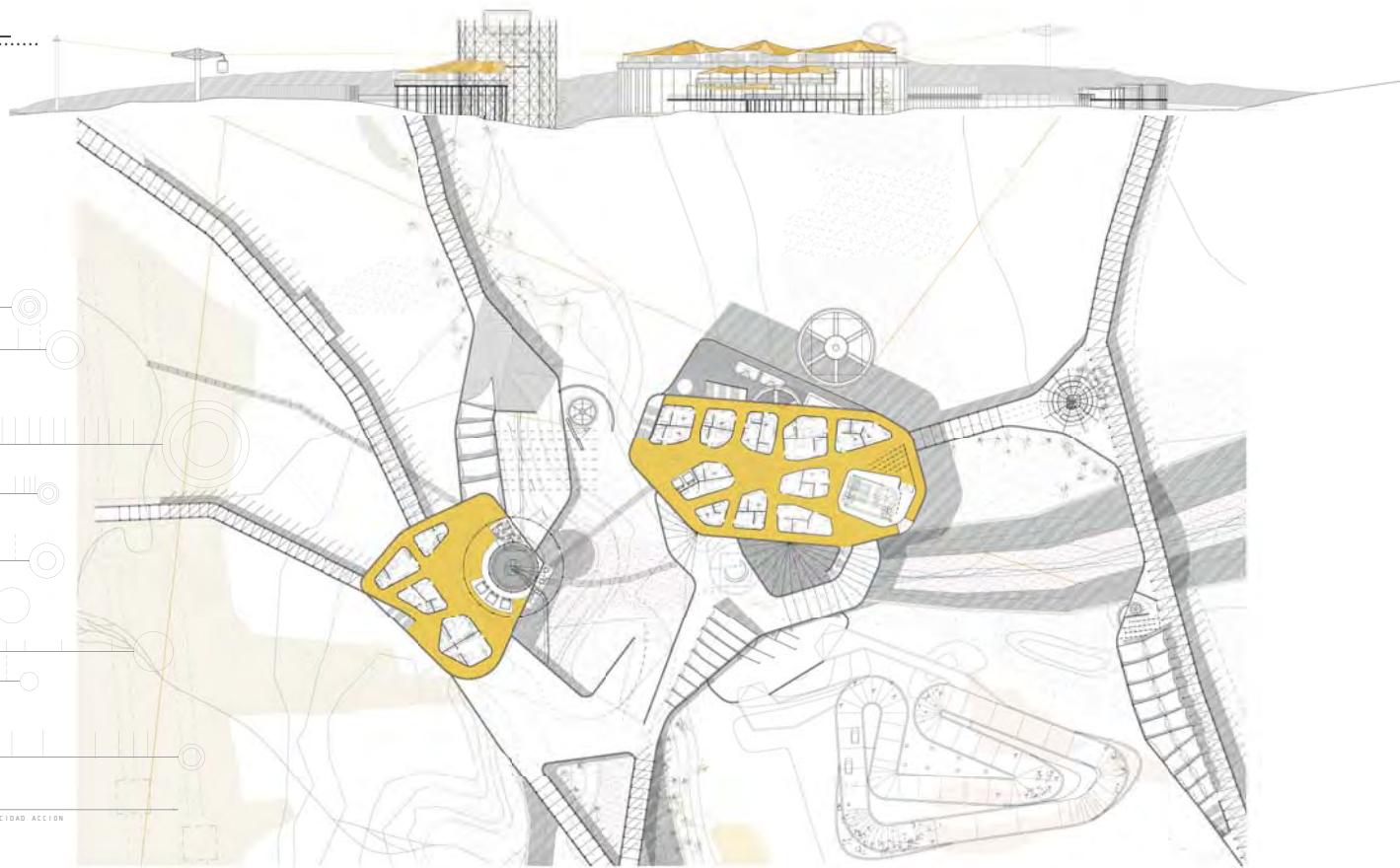
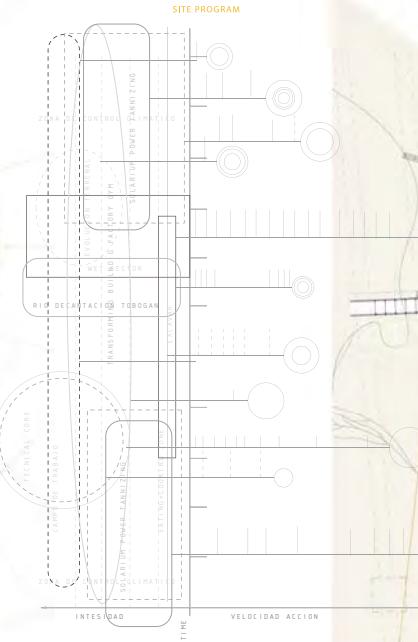
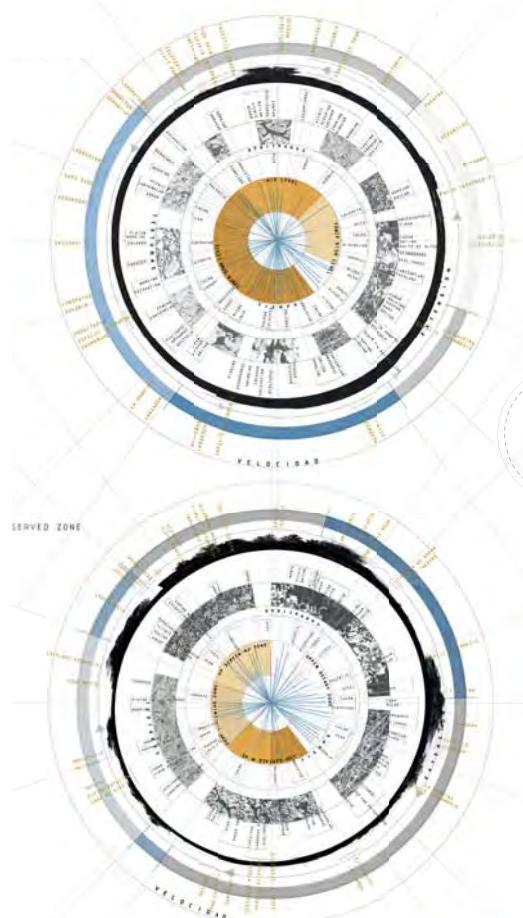
For a full understanding of the site several breakdowns were executed no only on the physical materiality but also on the intangible. Giving as result that for a correct approach on how the nodes interact between each other a Situationist interpretation on their activities and the human being was necessary.



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## environmental sustainability

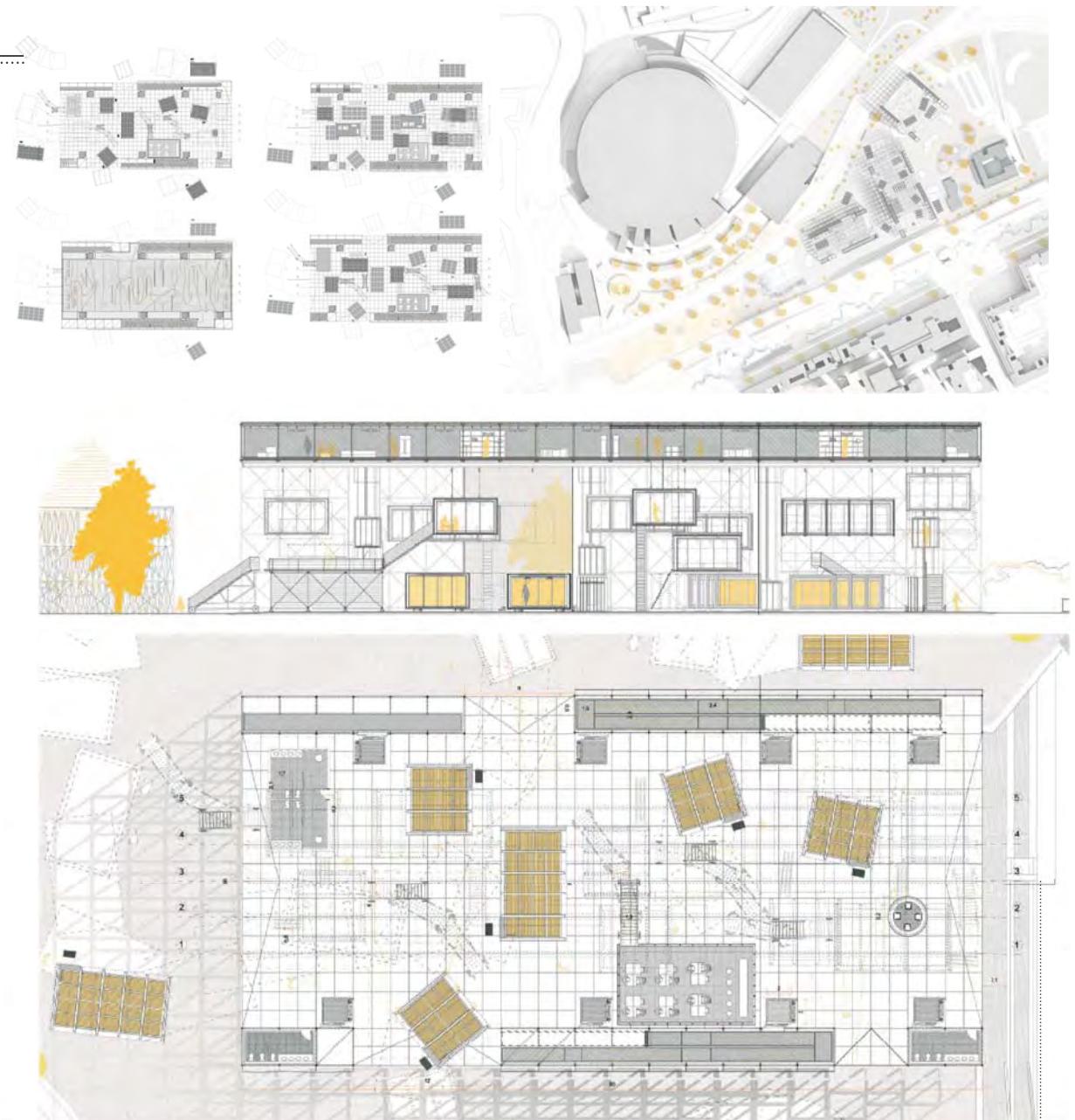
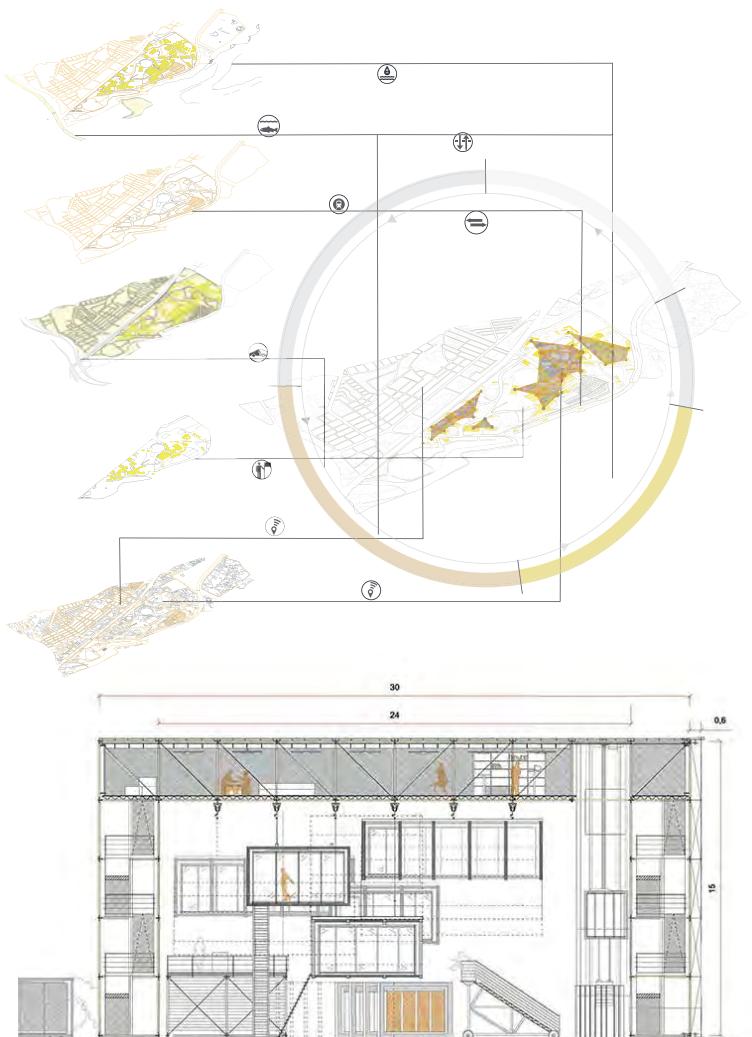
The project aims on the possibilities of landfills as zone of playground. Establishing a central core where all the games of the playground starts. Having also a small hotel and highviewpoint of the complete intervention, transforming the old space on a weekend holiday center.



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## **prefab**prefabrication technologies

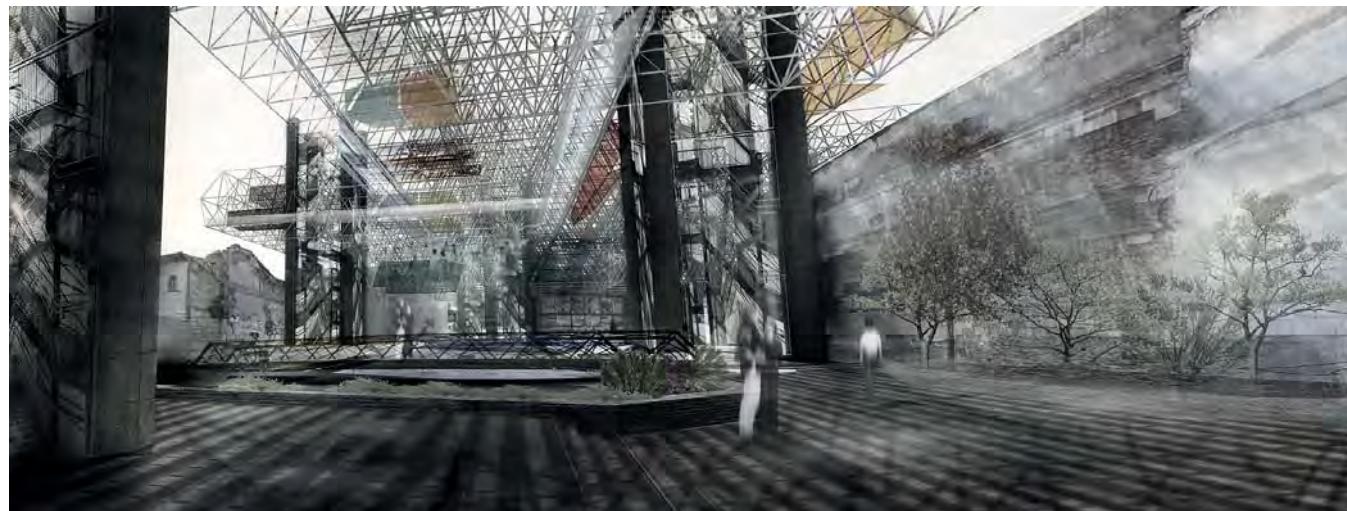
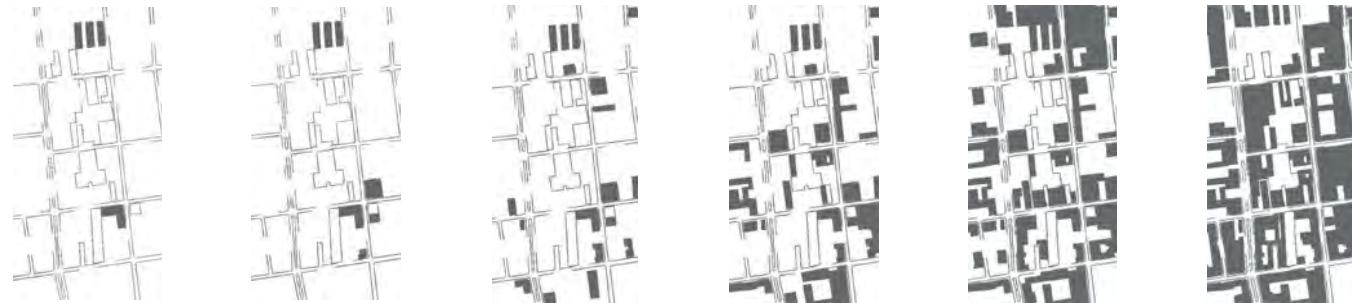
Multifunctional center for a impaired zone of Madrid where there are usually done festivities and urban markets. Using prefabricated structure of scaffold is created a wide open space where small modules hung from the structure and supported on the ground take needs of aconditioned spaces.





## spacial strategies

A big community above the city of santiago de chile who uses a modular structural system to fly above the city in a utopian form with living spaces made of shipping containers. All the living activities occur in the Interstitial platforms. With the idea of continuing with the footprint of the original plot and completing the residual spaces, a series of planes are proposed, making similar to the various planes of height of the city. In the same way the volume contains streets on a smaller scale already facing the user in which the idea of sharing free space is maintained.



## design in technology

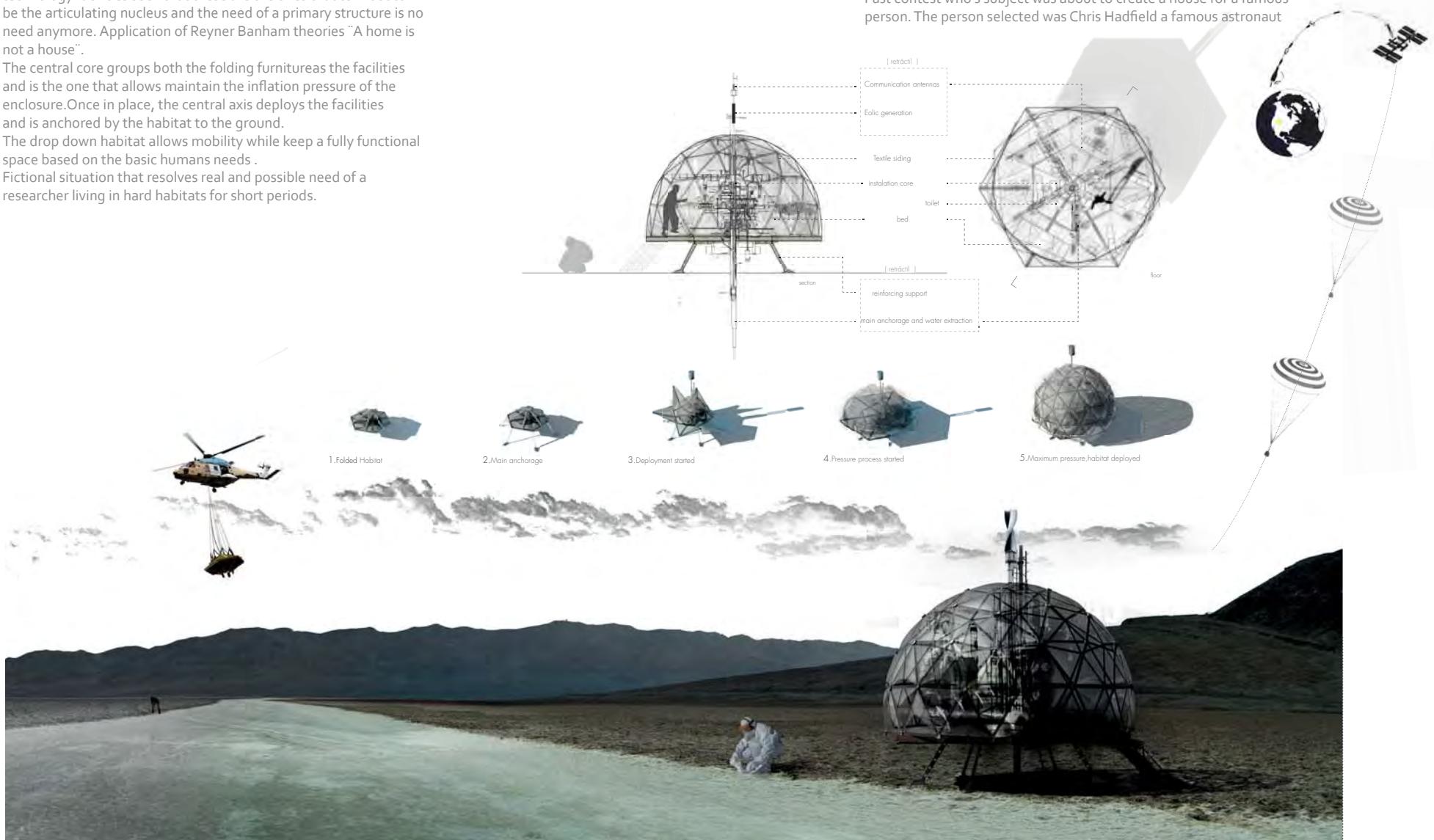
The habitat is based on the premise of having reached a level of technology facilities such that these are the ones that turn out to be the articulating nucleus and the need of a primary structure is no longer needed. Application of Reyner Banham theories "A home is not a house".

The central core groups both the folding furniture and the facilities and is the one that allows maintaining the inflation pressure of the enclosure. Once in place, the central axis deploys the facilities and is anchored by the habitat to the ground.

The drop down habitat allows mobility while keeping a fully functional space based on the basic human needs.

Fictional situation that resolves real and possible need of a researcher living in hard habitats for short periods.

Fast contest whose subject was about to create a house for a famous person. The person selected was Chris Hadfield a famous astronaut



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# FAB PAVILION

## WHAT IS

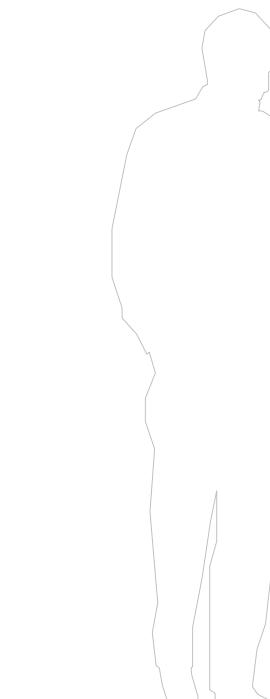
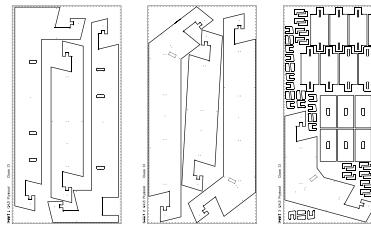
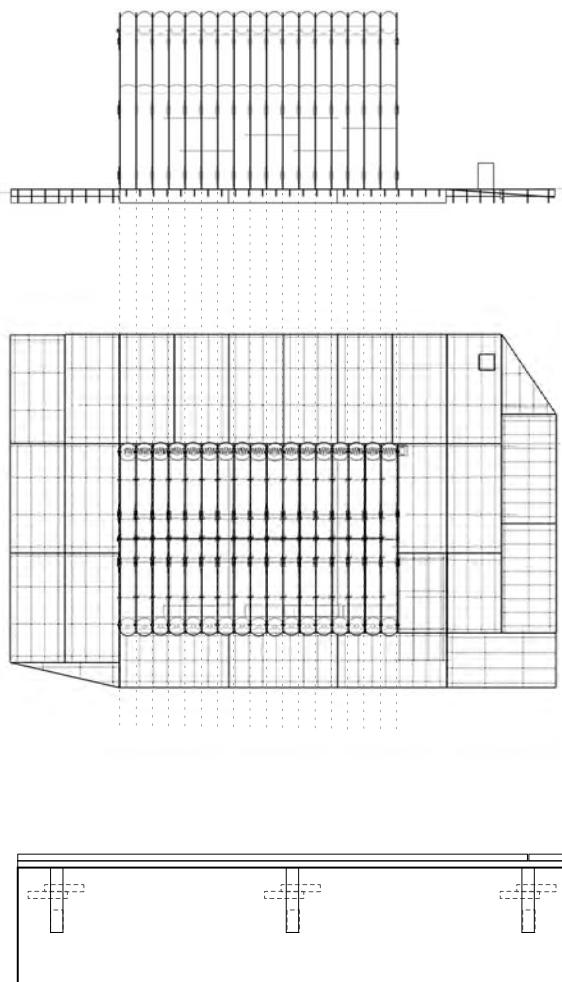
Fab Lab Seoul is presenting here a relatively inexpensive, expansive and artful alternative to investigation conventional construction and building . The system features only using fablab equipment as CNC ROUTER,LASER CUTTER,etc,using ecomaterials.

## WHY

Pavilion is a space where people can play, learn, and experience workshops and machines so they discover fablabs and makerspace community not only in theory but physically.  
Instead of using exhibit stands ,the appropriate space to make a fab showroom is to make one with Fablab tools. What better example of fablabs capabilities that the pavilion itself?

## architecture fabrication

Digital fabricated pavilion for Seoul MakerFaire with traditional Korean wood joinery. The wood represents "the real world" and the inflatable ribs "the imagination-ideas". The building was assembled in one day by a four people group. Showroom, simplicity, economy and easy construction were the key words in this project. Gross floor area of 60 square meters.



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## SEOUL DESIGN FESTA 2016

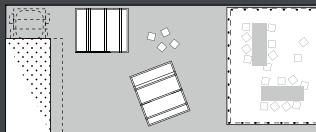
### MICRO LAB BOOTH

Modular construction-Space that evolves

One unique stand with multiple functions  
ALL-IN/ONE set

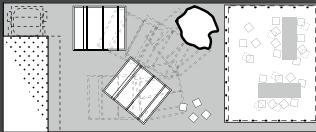
#### FESTIVAL DAY 1

Setup of all the modules and machines, cleaning of the space and initiate all the machines with samples.



#### FESTIVAL DAY 2

MID FESTIVAL  
User already come to the workshops and start to make things and assembling the



#### FESTIVAL DAY 3

FINAL FESTIVAL  
The booths moves again to show the elefab the user did and make the space wider for attending more

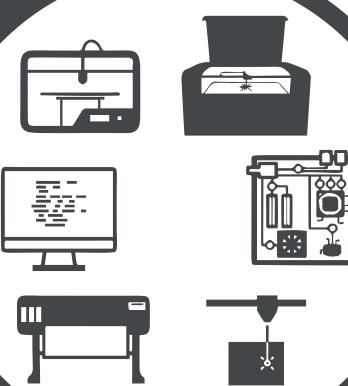


#### MODULE 1 EXHIBIT HUB

One unique stand with multiples functions  
ALL-IN-ONE set

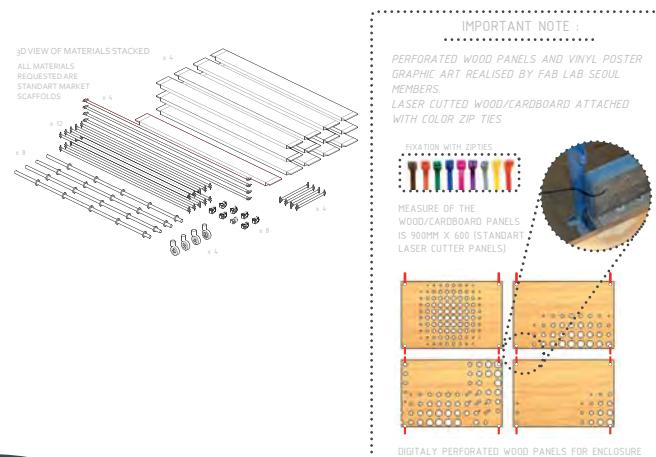
#### MODULE 2 WORK SHOP HUB

An open space only separated visually by a thin layer of polypropylene.



## prefabricated design

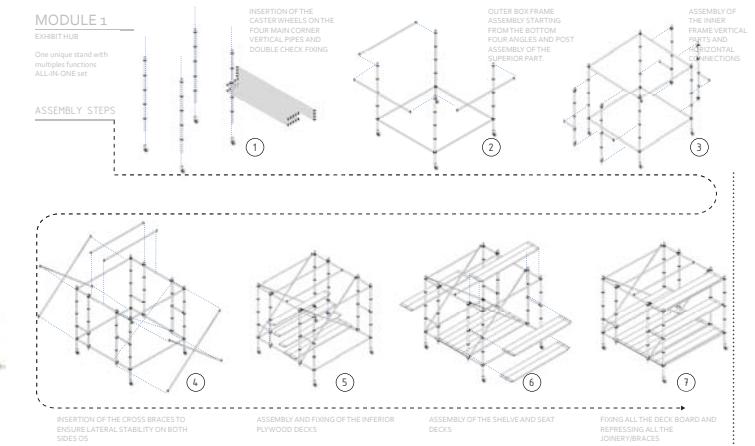
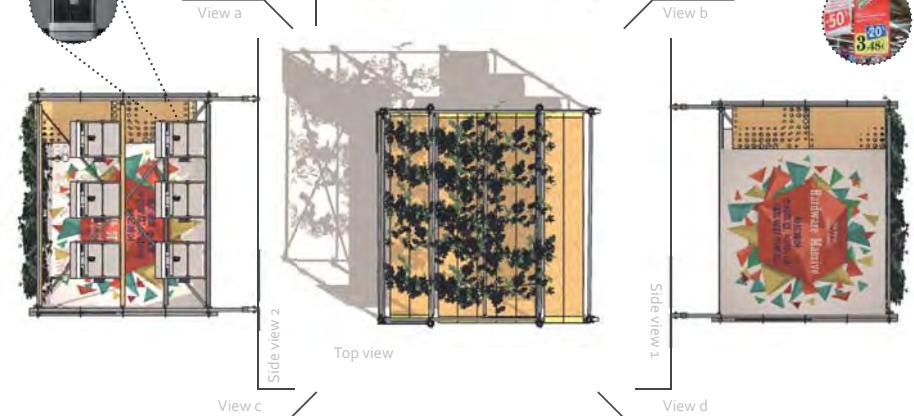
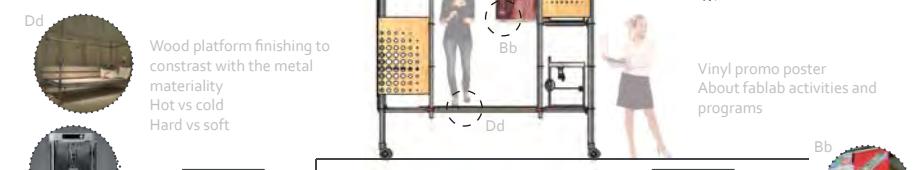
Prefabricated booth for Seoul Design Festa . Mobility of the space and machine installation as requirement give a small modular configuration result. Where the same module respond to the workshop-machines-exhibit-technical needs. Three zonifications for three different purposes. Fab Truck for giving multiple machine and tooling support. Workshop Hub for hosting big groups and all the workshop without disturbing the main exhibit space. Exhibits hubs that serve as shelves for machines and exhibit pieces as the same time as resting-working area for small groups or individuals



Pendant lighting bulb and naked wires.  
Nothing to hide, as the prototypes always show everything



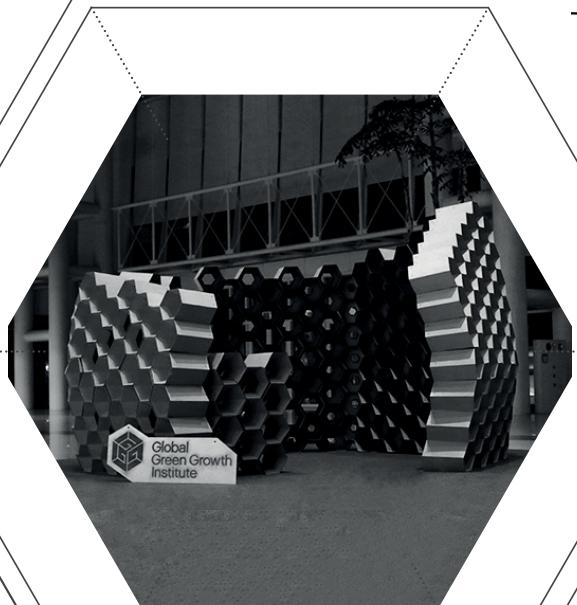
Wood platform finishing to contrast with the metal materiality  
Hot vs cold  
Hard vs soft



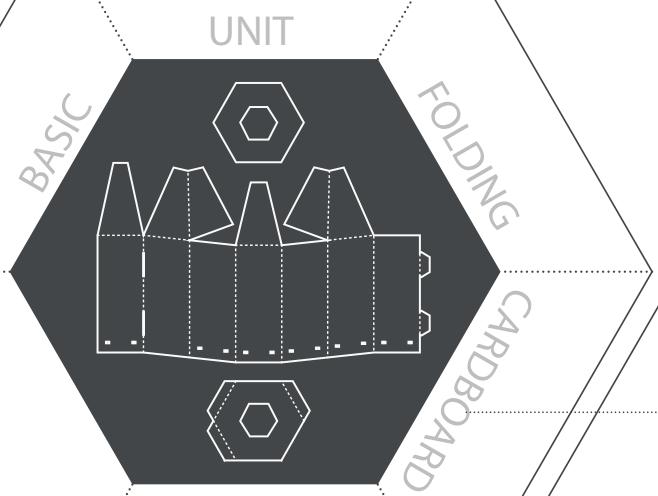
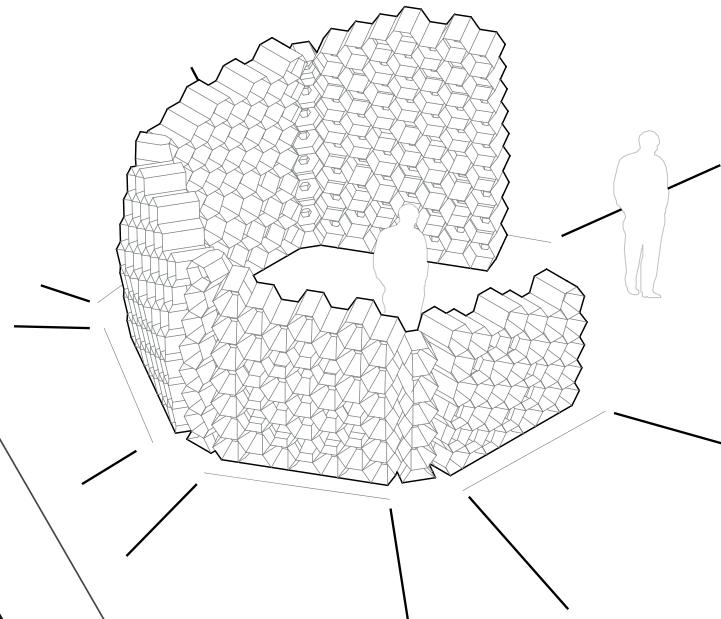
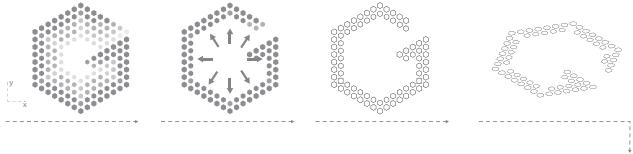
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## digital architecture

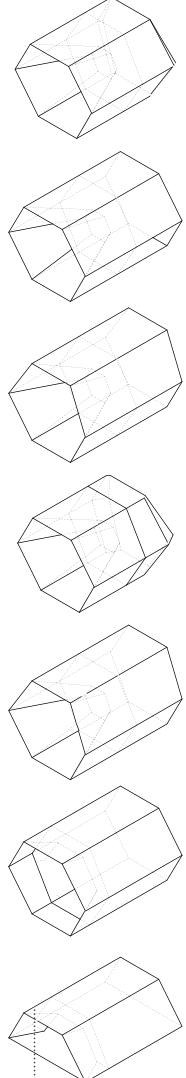
Temporary pavilion for the Global Green Growth Conference. Reinterpretation of the logo as a tridimensional shape and combining it again into a spacial opening gesture. The use of its main base shape and general one invites the visitor to come inside and around the object discovering the logo in all its manner. Election of the cardboard as main material due to its ecofriendly and renewal naturalness. All the parts were fabricated using a laser cutter



The parametric design allows the design to change and adapt to the needs of the space. Making it configurable depending on the needs. The modular system makes it easier and faster to produce reducing the waste.

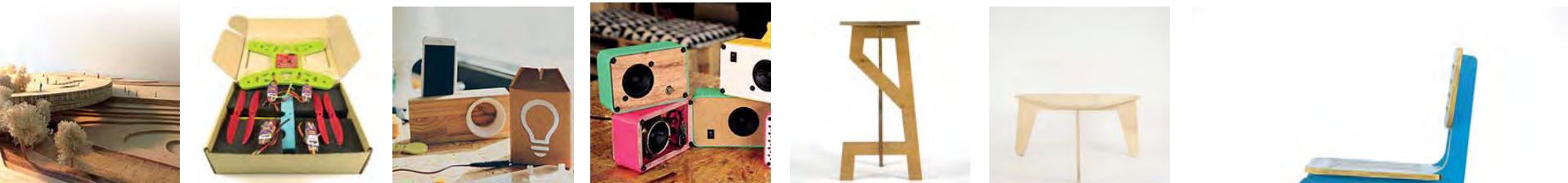


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## product design

Collection of works in collaboration with Fab Lab Seoul, DVA Architects, different museums and freelance works.  
Experimentation of the limits and possibilities of digital fabrication. Educational kits, furniture, spaces, performances and smart devices.



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## education

- FAB ACADEMY DIPLOMA,**  
(scholarship)  
Six month program on digital fabrication based on MIT's How To Make (almost) Anything, by Prof. Neil Gershenfeld of Center for Bits and Atoms 2006-2014
- MASTER DEGREE IN ARCHITECTURE**  
at San Pablo CEU University, Madrid, Spain  
Architectural project Design, development and management, Construction and building technologies,Urban planning 2013
- Master Madrid City (scholarship)**  
Three weeks workshop focused on the meaning of the dual city as a spatial model and its relation to the complex strategies which shape the development of a metropolis;with Morphosis, OAB, José Gonzalez Gallegos,Izaskun Chinchilla, Zigzagarchitectura,Mansilla-Tuñon 2012
- MADSTOCK Summer experience,**  
Polytechnic University of Madrid,Spain  
Summer workshop focused on 1:1 scale construction experimentation; reinterpreting its meaning and promoting the use of recycled and existing materials.
- DIGITAL FABRICATION**  
at San Pablo CEU University,Spain  
Five month workshop focused on how to express ideas in a material model and construction techniques  
One month CNC workshop focused on fast prototyping for architecture  
One month Grasshopper workshop focused on generative algorithms
- PHOTOGRAPHY COURSEWORK**  
at San Pablo CEU university,Spain  
Three month coursework learning digital retouching techniques,analogue developing and photographic theory
- TOUCH AND GO REALITY**  
Workshop directed by an Buenos Aires interdisciplinary collective. It was focused on discover and taxonomy different landscape situations.

CV  
2015  
January -  
Actually

- FABLAB SEOUL DIRECTOR**  
Fablab Seoul main professor and FabAcademy instructor. Multiple workshops and educational programs developer, Maker Academy, Start-up Academy, Fab Creators, etc. Management of the facilities and programs planning.  
Labour as designer and researcher in eco-efficient furniture, structures and new fabrication techniques.  
Curator, designer and manager of multiple pavilions exhibit in Maker Faire Seoul, Coex, GGCW,etc. Performances in Total Museum and curator.  
Main advisor for start-ups, artists and product designs. Webpage developer.  
Architect of the expansion and renovation of Fablab Seoul facilities. Advisor for META in Seunssanga Urban Development. Professor at American Center Korea,Us Embassy.  
K-lab (Founding Fablabs in South East Asia) program curriculum,facilities design and management in collaboration with KEC, KOICA.
- PROFESOR IN DIGITAL FABRICATION FOR ARCHITECTURE**  
at FabLab Madrid Ceu San Pablo  
Composition,photography,Photoshop, Illustrator lecturer and fabrication.
- FREELANCE PROFESSOR OF ARCHITECTURE SOFTWARE SKILLS**  
Freelance classes to studios; EBLA ARQUITECTURA, PICADO DE BLAS ARQUITECTOS, artist and arquitecture students
- ARCHITECT in EBLA ARQUITECTURA STUDIO**  
,Madrid,Spain  
Project, designing and drawing of a future implantation project "Don Bosco" in Mikomeseng (Equatorial Guinea)  
Collaboration in the competition Historic Center Renewal of Torrelodones
- EXHIBITION DIRECTOR of TRANSFORMAD**  
at Madrid Town Hall  
TRANSFORMAD is an architectural performance/exhibit about the future of the city of Madrid. As an exhibition director I was responsible for the correct exhibit operation and its design. I had to search also for sponsorships,coordinating lecturers,assembly and disassembly.
- EXHIBITION ASSISTANT of "Spain mon Amour"**  
at ICO Fundation, Madrid, Spain  
SPAIN MON AMOUR is an architectural exhibit about how architecture and urbanism has changed over the last decade in Spain. As an exhibition assistant I had to show and explain the concept of the exhibit to the visitors.
- JUNIOR ARCHITECT, CA14 Studio**  
Madrid,Spain  
Design team for different housing and urbanism development. Analyse location,deal with concept and distribution.
- PARK OPERATOR-LIFEGUARD,**  
Seaworld, Orlando, Florida,EEUU

## work experience

## languages



fluent B2



native  
speaker



bilingual  
DALF C1

%

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## design skills

Autocad	█████████████████████
Photoshop	█████████████████████
Lightroom	██████○○○○○○○○
Illustrator	███████○○○○○○○○
InDesign	███████○○○○○○○○
Flash	██████○○○○○○○○
Rhino	████○○○○○○○○○○
Sketchup	███████○○○○○○○○
Vray	███████○○○○○○○○
123series	███████○○○○○○○○
SU Podium	███████○○○○○○○○
Ms Office	███████○○○○○○○○
Premiere	███████○○○○○○○○
Final Cut	███████○○○○○○○○
Eagle	███████○○○○○○○○
Html	███████○○○○○○○○
Wordpress	███████○○○○○○○○
Processing	██████○○○○○○○○
Arduino	███████○○○○○○○○

## fabrication skills

█████████████████████	Laser Cutting
█████████████████████	3D Printing
█████████████████████	3D Scanning
█████████████████████	Composites
█████████████████████	Cnc
█████████████████████	Vinyl Cutting
█████████████████████	Pcb
█████████████████████	Molding and casting
WINDOWS	█████████████████████
MAC OS X	█████████████████████
LINUX	█████████████████████

## accomplishments

- 2016       Interview, "Seunssanga Documentary" SBS-Tv  
Documentary on how maker movement is changing the city  
 3º Position in 2º Drone Fight Korea,ASL  
 Work Publication, "Design" design magazine korea  
 Work Publication, "Ponoko" design magazine
- 2015       Let's Make Global Forum Korea,KOFAC  
Speaker with Hiroya Tanaka,Paul Duggen, Kim Sung  
 "Ideas Club" Korean Goverment Foundings  
Development of drone educational kit
- 2014       3º Position in ArcChallenge Youth Hostel competition  
Spoiled neighborhood recovery contest  
 Work Publication, On Diseño architectural magazine  
 Work Publication, Veredes architectural magazine
- 2013       3ºPosition in Orona CEU architecture competition  
Vertical architectural systems contest  
 3ºPosition in Schindler CEU architecture competition  
Vertical architectural systems contest  
 Work Exhibit "Se alquila mercado", Cebada Food Market  
Organized by local cultural society "La Latina"
- 2010       Winner at CEU Yearly weight optimized structures contest  
Wood beam contest  
 3ºPosition Photography CEU artistic competition

## personal profile

### BIO

I am interested in how technology and new trends can transform architecture and his processes to improve peoples lives. I seek to push myself, past my potential and develop new architectural methods (and/or human centered design processes) that could be applied in to the real world meanwhile sharing theses into the community.

I am an active person who loves life and practises multiple activities.

- |                               |  |                                    |
|-------------------------------|--|------------------------------------|
| <input type="radio"/> Surf    | <input type="radio"/> Photography        | <input type="radio"/> Cinema       |
| <input type="radio"/> Ski     | <input type="radio"/> Aircraft modelling | <input type="radio"/> Illustration |
| <input type="radio"/> Biking  | <input type="radio"/> Reading            | <input type="radio"/> Cycling      |
| <input type="radio"/> Archery | <input type="radio"/> Technology         | <input type="radio"/> Typography   |
| <input type="radio"/> Skating | <input type="radio"/> Travelling         | <input type="radio"/> Diy projects |

