

PORTFOLIO

January 2024

Miguel Ángel Zúñiga Vega

Master in BIM Management / MSI Barcelona

Master's Degree in Architecture: Project, Process and Programming / ETSAB UPC

Degree in Architecture / ITESO University

Miguel Ángel Zúñiga Vega

Architect

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Barcelona
13/05/1996



Professional Experience

as a coolaborator

In 2017 I worked at Juan Palomar's Architecture Workshop developing architectural projects: an apartment building in Guadalajara, a prototype model of social interest housing and the Master Plan for the Botanical Garden of Culiacan in collaboration with TAX - Alberto Kalach.

The summers of 2016, 2017 and 2018 I developed the architectural and executive project and the construction management of two industrial buildings of two thousand square meters.

In January 2021 I started working at the renewable energy company Ecowatt. There I worked as a project manager, where I performed various tasks, from the design of structures, assemblies and site management, to dealing directly with clients, planning marketing and communication strategies.

In August 2023 I started a project as a freelance coolaborator for the realization of the executive project of an office building located in Prague, of 16 levels with more than 15,000 m2.

Architect

Juan Palomar Vereá's Architecture Workshop

Guadalajara, Mexico

2017 - 2018

Development of urban and residential architectural projects.

Architect

Metal Structures Workshop

Leon, Mexico

Summer 2016 / 2017 / 2018

Development of architectural and executive industrial projects.

Construction Management.

Architect

Ecowatt

Leon, Mexico

2020 - 2021

Design and Management of renewable energy projects.

Direct attention to clients, executive design, rendering, structural design and construction execution.

Freelance Architect

AIS London

Barcelona

2023

Development of executive project for a 16-story office building in Prague.

Professional experience

own projects

In 2016 I founded, along with other colleagues from the university, a project dedicated to the dissemination of architectural culture: Galimatías. Since then, we have had the opportunity to offer lectures by architects such as Carme Pinós, Atelier ARS, Macías - Peredo, Sergio Ortiz, Delvendhal Martin and artists such as Jorge Méndez Blake and Carlos Ránc. In addition, we have developed some books as editorial products. Also, with the emergence of the pandemic and the difficulty of generating meeting spaces in a face-to-face way, we developed a digital platform where we make publications on different topics with guest authors.

Since 2018 I have developed architectural project on my own: housing, industrial buildings, interventions in historical heritage contexts, offices and parking.

In 2020 I started the Juno project: a company dedicated to the design and manufacture of furniture in ironwork, marble, solid wood, glass, leather and textiles. This project is part of my understanding of architecture from minimal and everyday objects. It is also an effort to link tradition and modernity in the same project through the combination of materialities, construction or manufacturing techniques and composition of forms.

In 2023 I started a project of writing and publishing texts on topics that are of interest to me, mainly about architecture and its relationship with life.

Founder / Co-director

Galimatías

galimatias.mx

Guadalajara, Mexico

2016 - present

Galimatías is a project dedicated to create spaces that enrich the interdisciplinary education of architects with conferences, exhibitions, weekly publications, book editing and publication, discussion forums, among others.

Founder / Director

Juno

junotaller.com

Leon, Mexico

2020 - Actualidad

Company dedicated to the design and manufacture of furniture.

Academic background

I studied Architecture at ITESO, Guadalajara, Mexico, where I had the opportunity to have professors such as Juan Palomar, Salvador Macías, Alejandro Guerrero and Francisco Gutiérrez who guided my particular interests in architecture. In addition, I had the opportunity to complement my education with subjects of the degree in Philosophy with professors such as Demetrio Zavala and Alfonso Alfaro.

In 2021 I moved to the city of Barcelona to study the Master in Architecture directed by Xavier Monteys where I developed the final project *The city and Sunday*.

In 2022-2023 I studied a Master in BIM Management in Barcelona with the intention of perfecting my knowledge and skills in this area.

Acknowledgments

In 2021 the Conacyt awarded me a scholarship for studies and maintenance within the program *Creators of the Future*, for the completion of my master's studies at the ETSAB.

Languages

Spanish: native. Excellent reading comprehension, spelling and syntax.
English: Excellent reading and listening comprehension. Good verbal communication and writing skills.

Research

This essay is an observation and description of the everyday life of Sundays, how life manifests itself and how architecture and the city are transformed, taking the city of Barcelona as the main reference.

Software

I have facility for the management and learning of softwares.
My skills are mainly focused on:
Digital modeling with BIM methodology in Revit.
The representation of architectural, executive and detail drawings, for example, for the development of construction and manufacturing manuals.
Image editing: perspective correction, colorimetry, photomontages.
Schematic rendering with Revit and Vray for architecture, with SketchUp for furniture.
Architectural rendering environment with Adobe package.

Skills

My interest in other disciplines such as editorial and industrial design, in addition to my professional experience in various branches of architecture, have allowed me to develop skills complementary to my training as an architect.

Master in BIM Management / Autodesk Specialist

MSI Academy

Barcelona

2022 - 2023

Master in Architecture: Project, Process and Programming
ETSAB UPC

Barcelona

2021 - 2022

Degree in Architecture
ITESO

Guadalajara, Mexico

2015 - 2019

Scholarship Creadores del Futuro 2021

CONACYT

Mexico

2021 - 2022

Spanish

English / TOEFL 570

Master's Final Project

The city and Sunday

October 2022

<https://upcommons.upc.edu/handle/2117/376815>

Autocad 2D + 3D + ISO

100%

Revit

100%

Vray

80%

Photoshop

100%

Illustrator

100%

InDesign

80%

Sketchup

60%

Office

100%

3D Revit modeling with BIM methodology.

Specialization in Revit family creation.

Image editing.

Architectural representation environment.

Text editing and writing.

Editorial design.

Text layout.

Furniture design.

Leadership and management.

Critical thinking.

Problem solving.

Oral development.

Team work.

Patience, attention and commitment.

Work administration.

Personnel management.

Choice of materials.

Exhibition curatorship.

Design and update of web pages with Wordpress.

Design and update of web pages with Prestashop.

Design and management of photovoltaic installations.

Market and apartment building

Design workshop with architect Francisco Gutiérrez

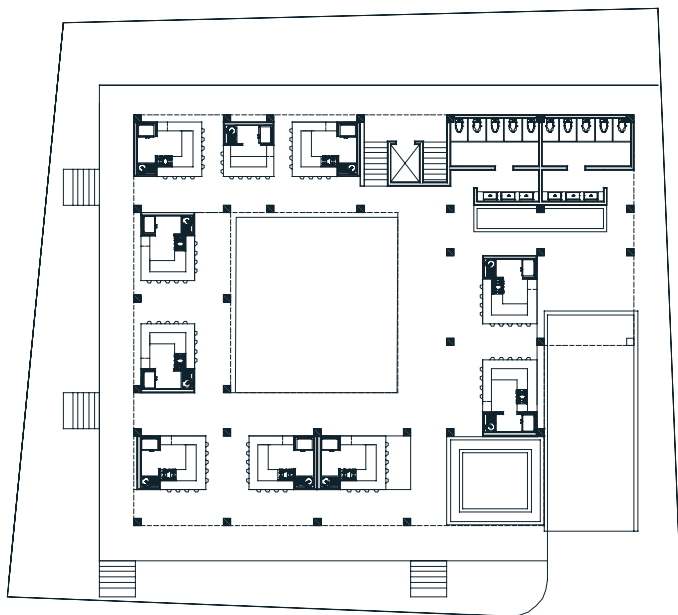
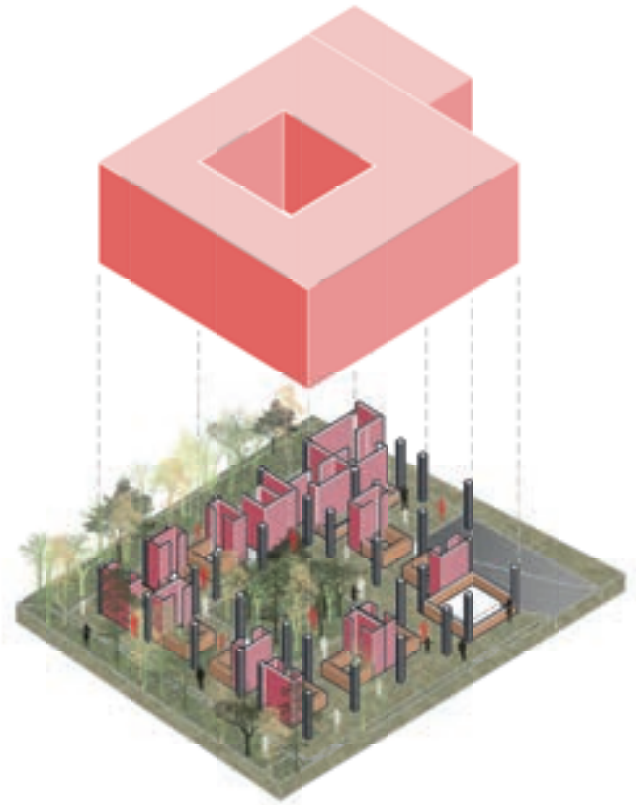
Autumn 2017

Autocad + Photoshop

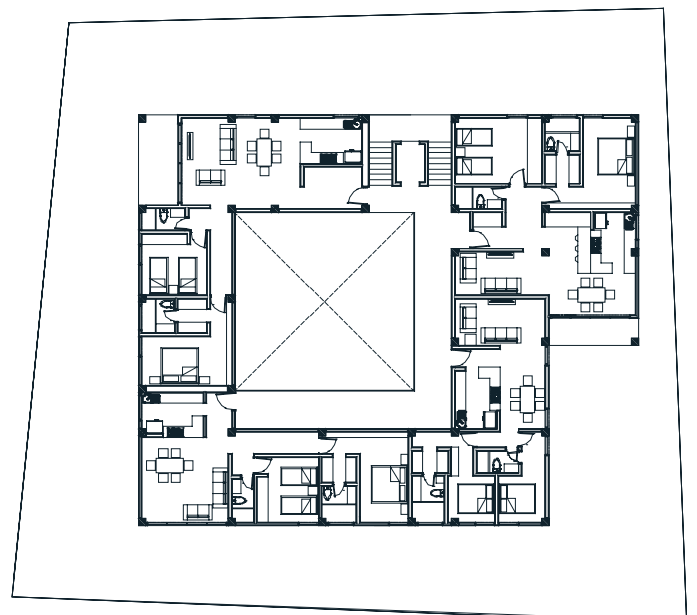
The architectural exercise consisted of designing a mixed-use building with a gastronomic market and apartments in the Jardines del Bosque neighborhood in Guadalajara, Mexico.

The project is based on respect for the environment, understanding of the site and the link with the city. Therefore, the main objective was to consolidate a public-private project that would have a direct relationship with its surroundings on the first floor, that is, that it would become an extension of the city. In the same way, the environment, with its spaciousness and vegetation, would become an extension of the project and a fundamental part of the building.

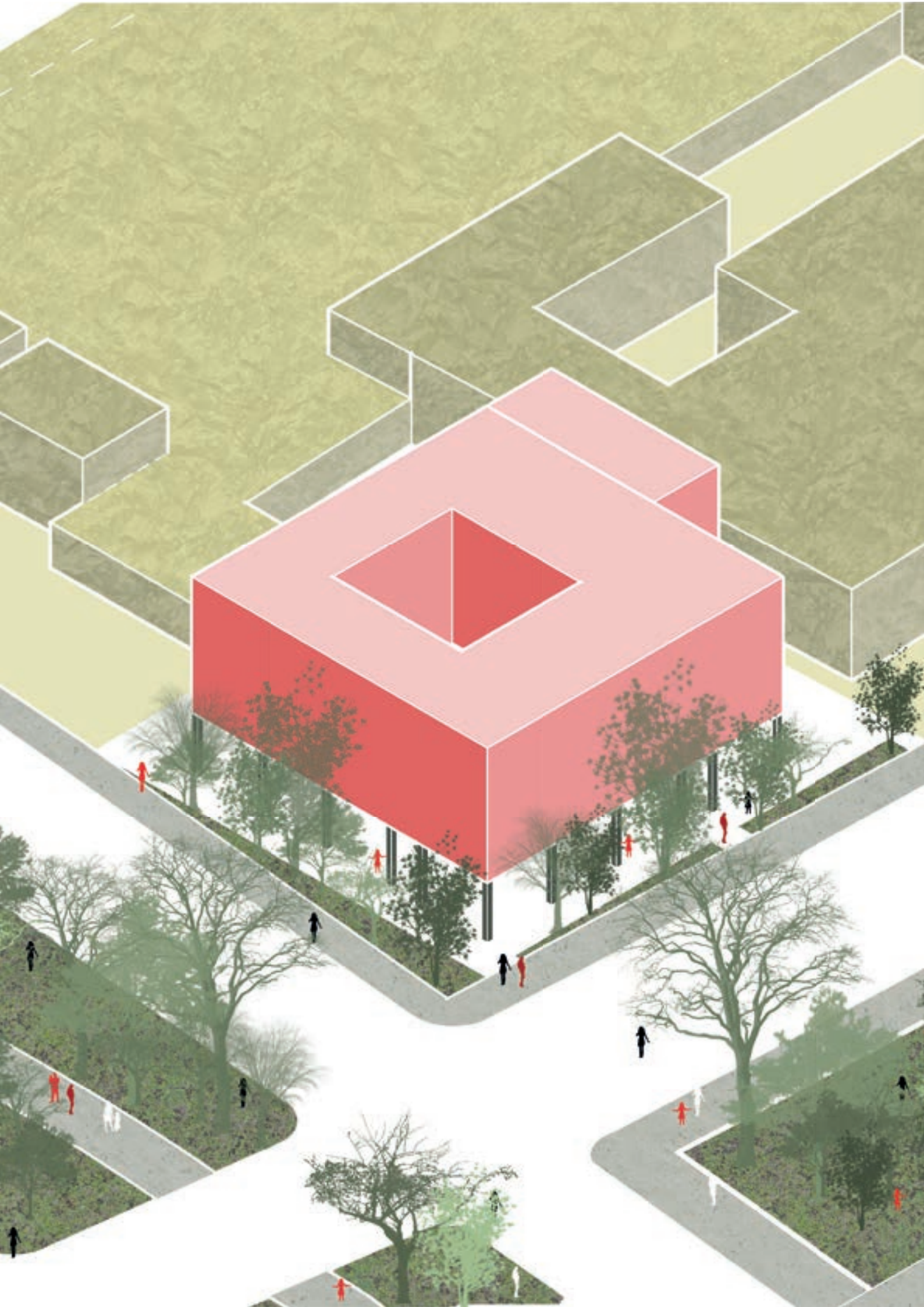
The project is deployed around a large central courtyard. On the first floor, in the market area, it functions as a passive linking space. On the other hand, on the upper floors where the apartments are located, it functions as an axis that gives shape, ventilation, lighting and vegetation that acts as a buffer against noise and solar incidence.



Ground Floor
Esc. 1:500



Type Floor
Esc. 1:500



Architecture as a possibility: Walmart Apocalypse

Design workshop with architect Juan Palomar

Spring 2018

Autocad + hand rendering

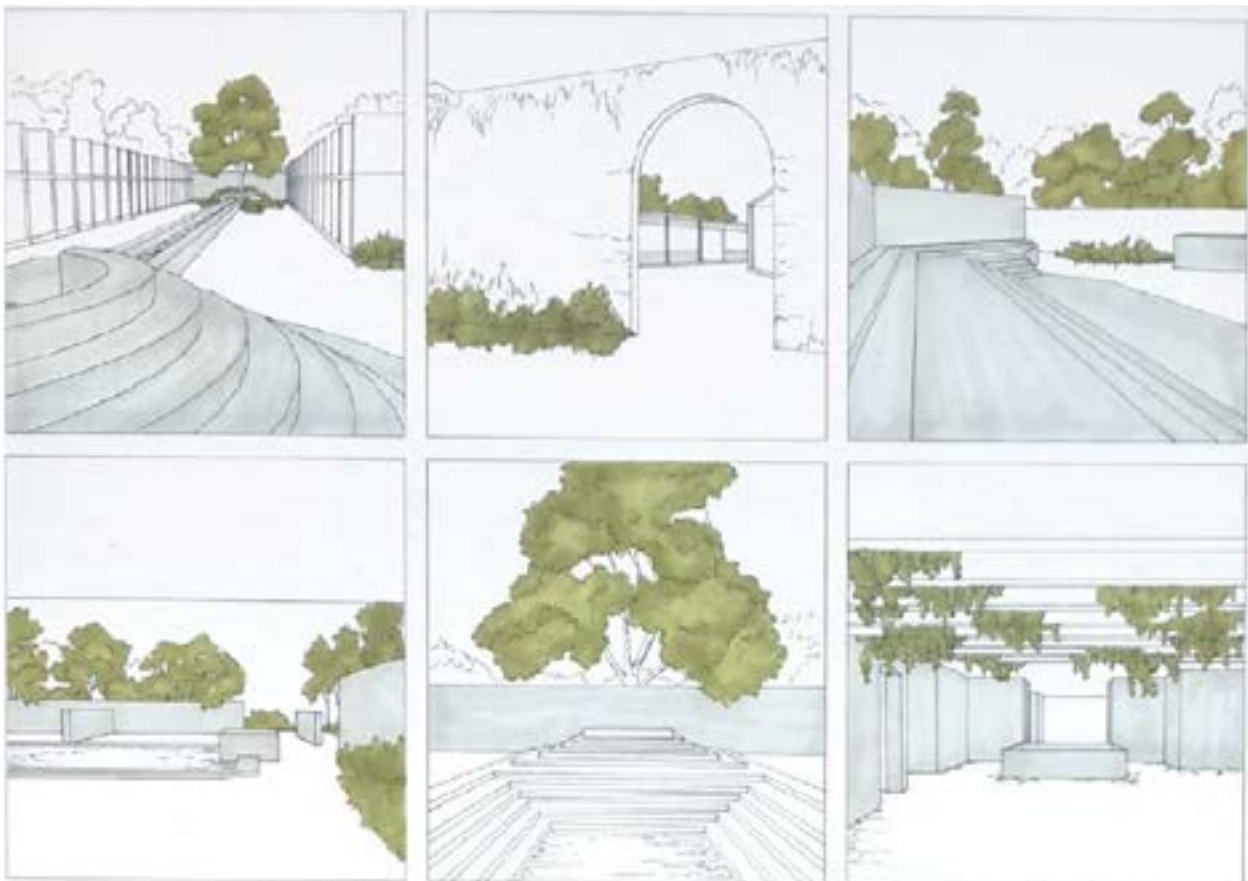
In collaboration with Diego Orduño y Ángel Vázquez

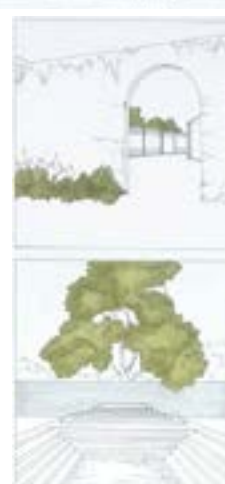
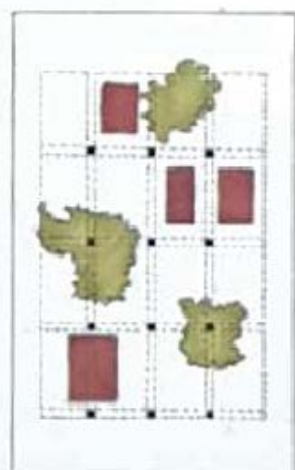
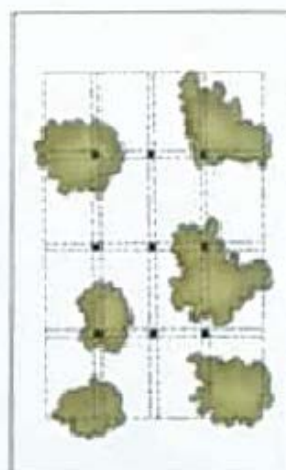
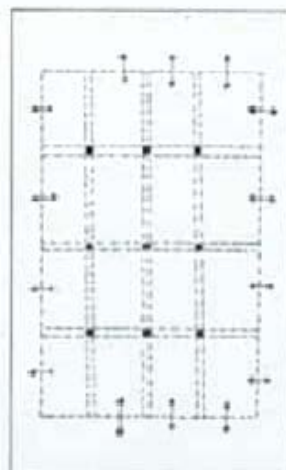
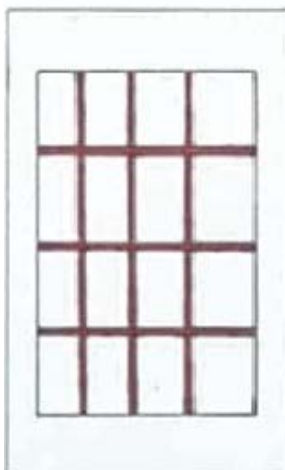
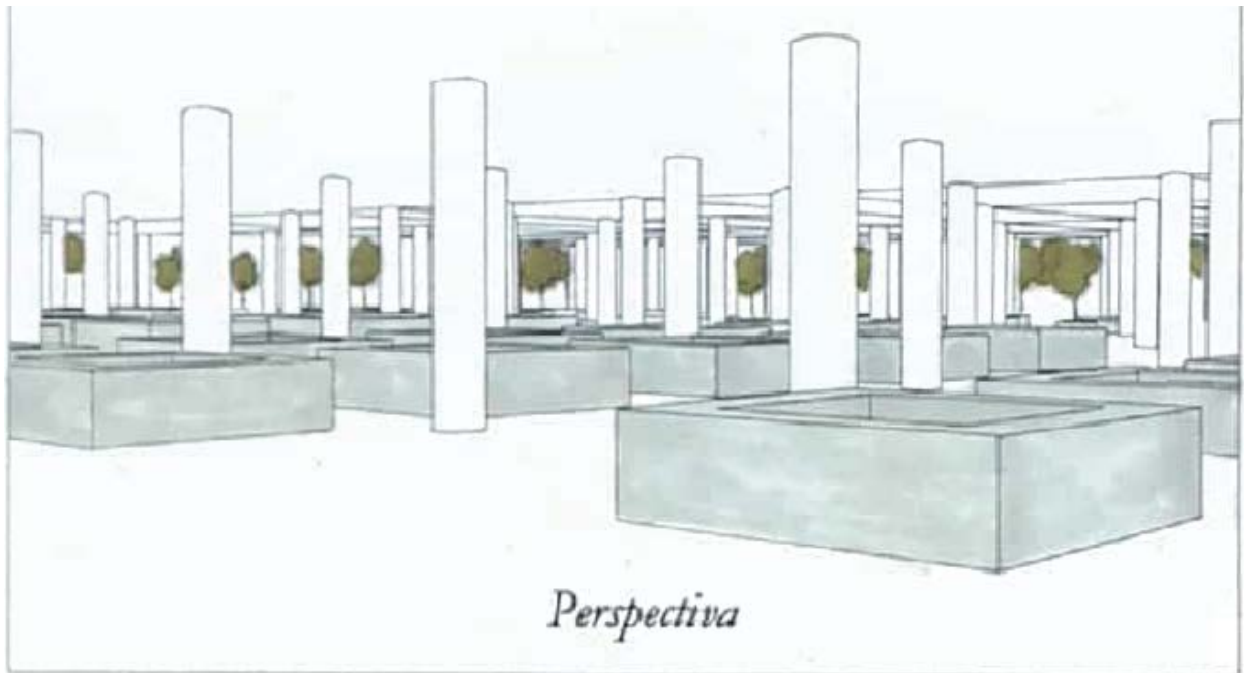
The forms of architecture and its construction systems necessarily respond, at bottom, to transcendental questions. We start from the premise that architecture has to be humanizing, if we consider that what makes us human is freedom itself, we have no other option but to undertake the search for construction methods and spatial qualities that enhance our own human condition: possibility. This architecture dignifies life from the everyday, not only human life but that of the city as a whole.

Possibility, moreover, awakens the imagination. That is why the project proposes a radical stance against the preserves. The preserve is synonymous with impossibility: not being able to go out easily, not being able to see the city, not being able to have contact with the river and the parks, not being able to get to know the neighborhood life and its richness, not being able to move around without the need of a car, among many others.

The issue of possibility is addressed on a much smaller scale, however, equally relevant in each of the housing modules. The massive housing complexes of the modern project lacked identity and flexibility; little space and a rigid structure that does not allow great possibilities of proposal to organize a dwelling. The lack of possibilities has repercussions on the lack of appropriation, and creates a fragile and fragile relationship between people and the place they live in. The challenge was to propose a great densification without neglecting the project at the residential level, that is, specifically to provide generous and undefined spaces for the users. Generosity potentiates possibilities.

The project, in practical terms, proposed to change the use of the building that Walmart built for one of its supermarkets in the heart of a traditional neighborhood in Guadalajara, Mexico, transforming and damaging its social fabric and neighborhood dynamics.





Retirement Home

Design workshop with architect Javier Díaz

Fall 2018

Autocad + Revit + Photoshop

The exercise consisted of designing a nursing home for the elderly in the Americana neighborhood of Guadalajara, Mexico.

The project starts from a concentric axis dictated by a large pre-existing tree, a ficus benjamina. Although the trunk of the tree is not the axis of the project, the intention was that all the living spaces would have a direct relationship with the tree, its foliage and shade.

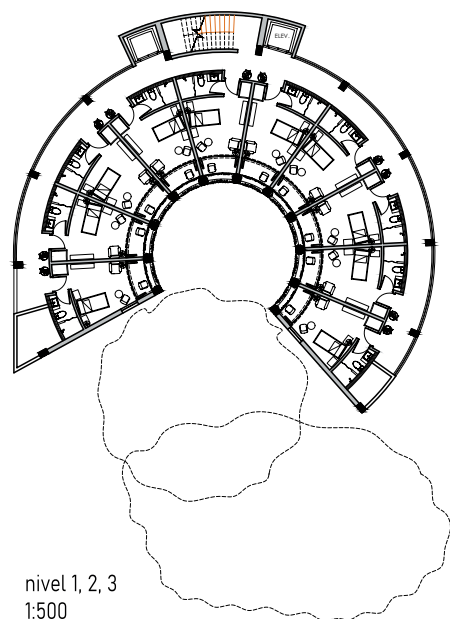
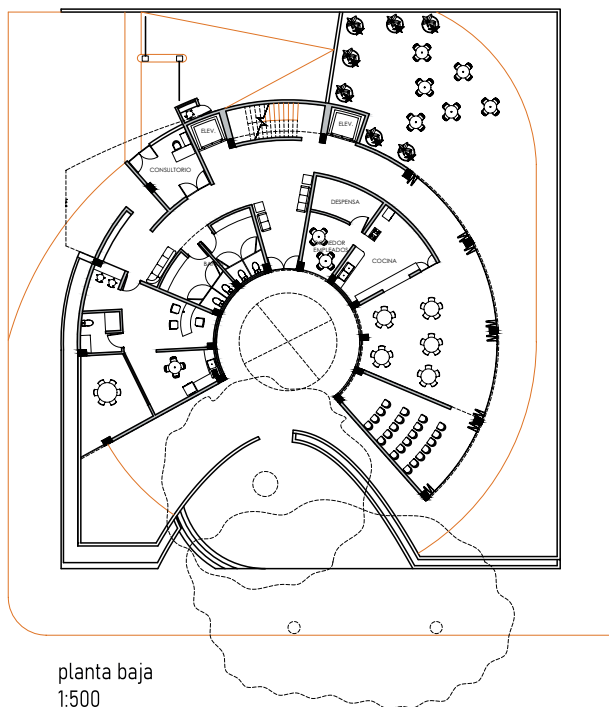
Thus, it was decided to develop the different spaces starting from a circular courtyard, making an extrusion to the volume that shapes the building, being the tree the link that ends up configuring it.

The structure, in this case, determines the project in such a way that the spaces take advantage as much as possible of the entrance width and the vanishing points towards the main plant element of the project.

The project contemplates the common areas on the first floor and on the upper floor, leaving the arrangement of the housing units on the intermediate levels. Therefore, there is an intention to link the private and common spaces in such a way as to encourage the community development of the inhabitants. In addition, it includes indoor and outdoor spaces where they can interact.

On the other hand, it was also important to emphasize the spatial quality of each of the housing units, their relationship with the environment but also their privacy.

For this project it was important to refer to architects such as Fernando Higuera and Rogelio Salmons, who developed several projects based on a circular geometry in plan.





Industrial buildings

ZUVE metallic structures workshop

Summer 2016 - 2017 - 2018

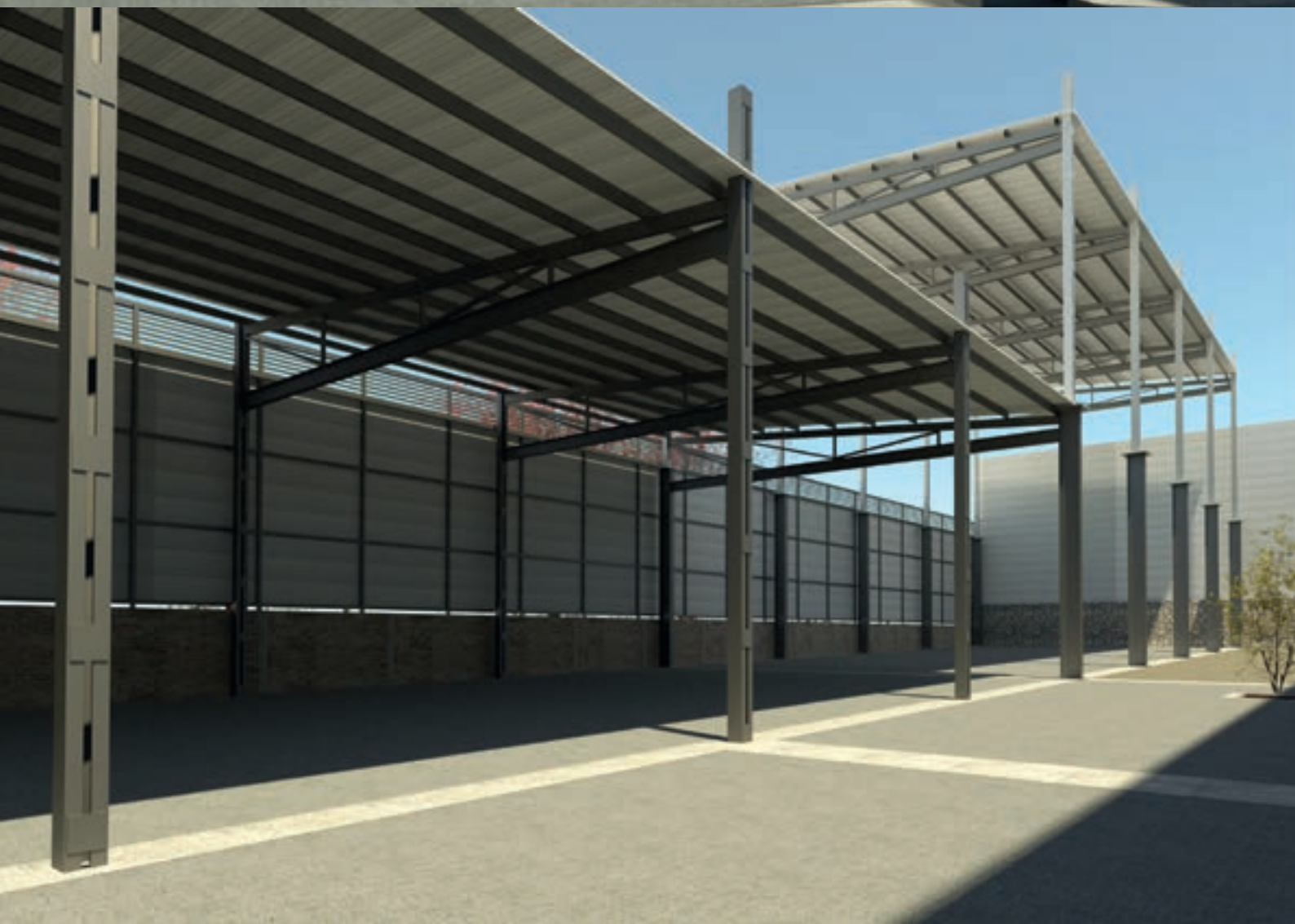
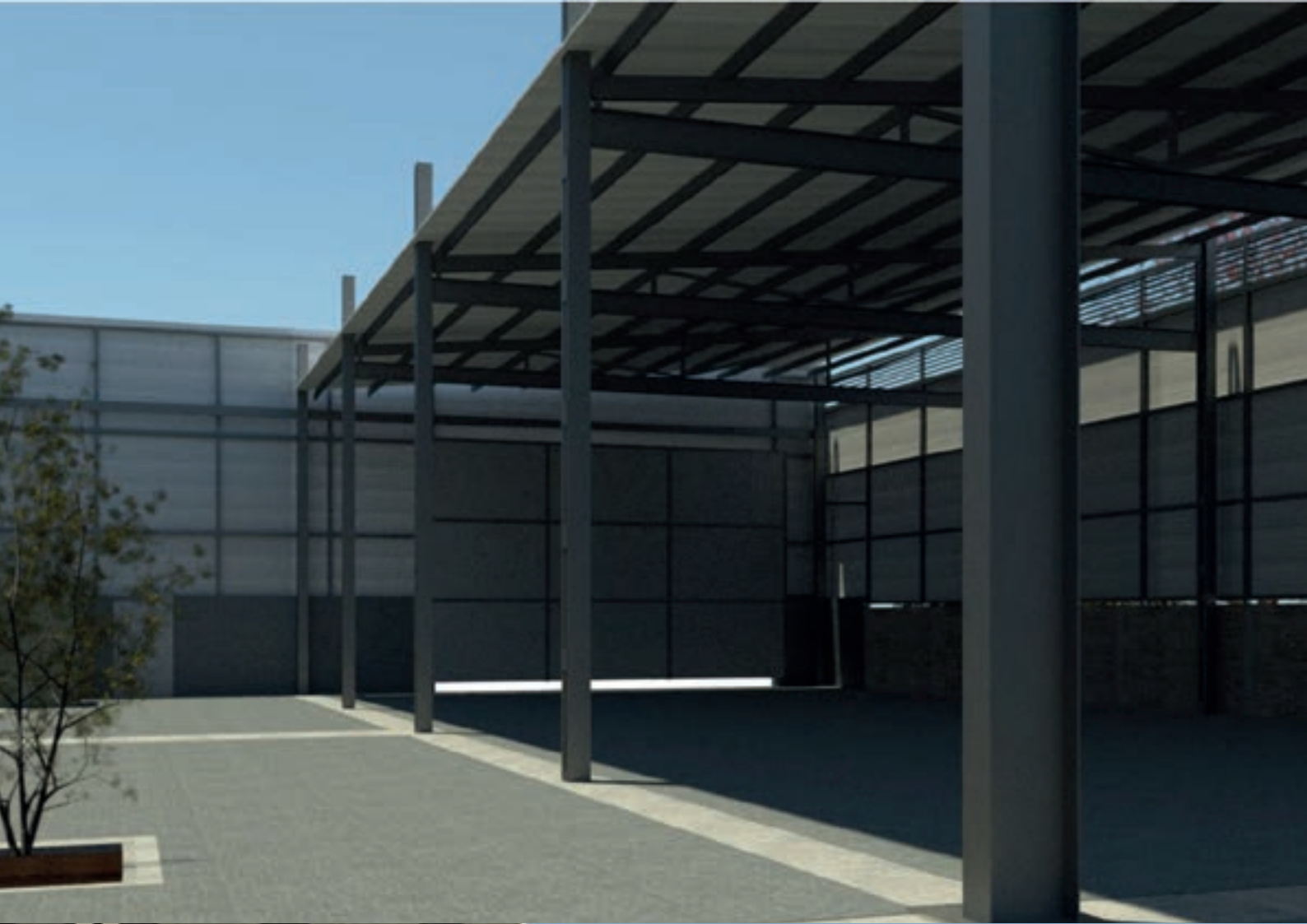
Revit + Photoshop

I worked for the ZUVE metal structures workshop during the summers of 2016, 2017 and 2018, that is, from May to September of those years. There I developed architectural project, executive project and construction supervision of small-scale industrial buildings. The experience developed there allowed me to consolidate knowledge and work with the different challenges that an architect faces when developing industrial work. The modulation of the elements, far from being a limitation, is an advantage for those who know how to make use of the wide range of steel materials that are manufactured in a standardized way all over the world.

In this particular case, being an industrial building that did not require impermeability, but on the contrary, was looking for a mix between covered work area and outdoor area, we proposed a building that coexisted with both requirements and also took advantage of the possibility of coexisting with vegetation to break with the inhospitable industrial landscape.

The project contemplates roof areas with different heights, considering the client's needs, and also allows the possibility of transforming the project easily in case the needs or the architectural program change.





Laurel House

Architectural preliminary project

May 2019

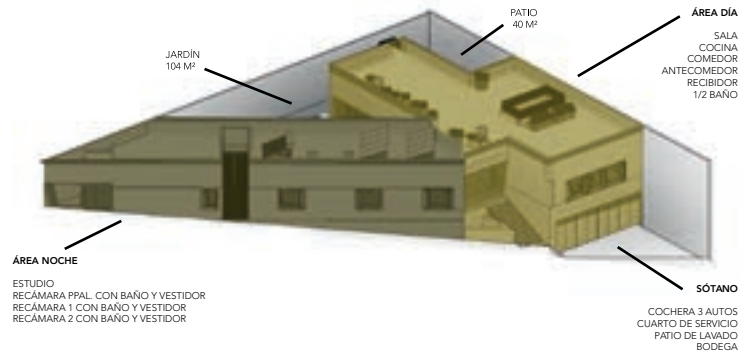
Autocad + Revit + Photoshop

This architectural project was developed for the construction of a house on a 540 m² lot.

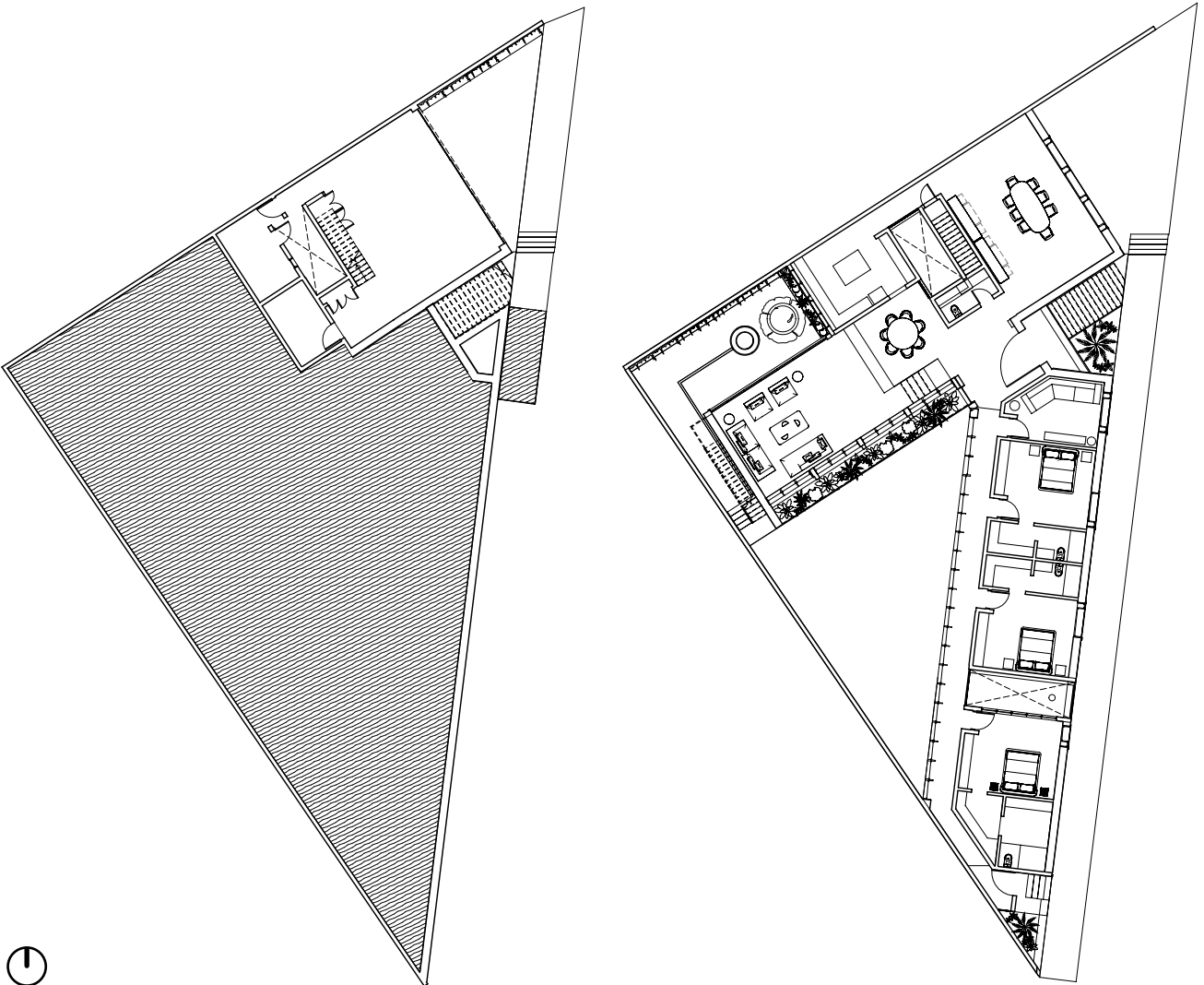
The lot has the particularity of having a triangular shape and a steep slope.

The project is designed with all its common areas on one floor, leaving only the service areas and garage on the first floor.

The house has a central garden and a patio. The system of sewage connected between two fountains of the house, allows a climate regulation through water. In addition to being an apparent and functional rainwater collection system.



14





Cañada Building

Architectural preliminary project

2023

Revit + Photoshop

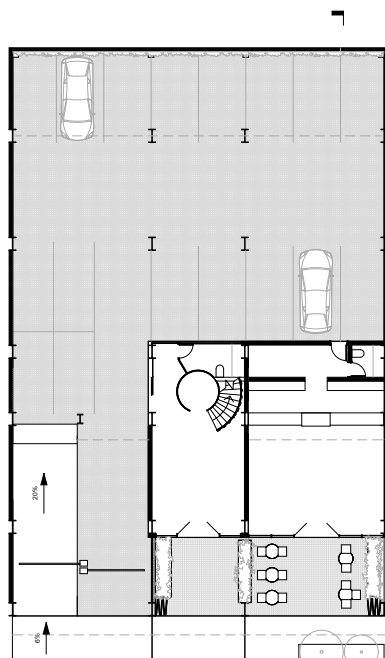
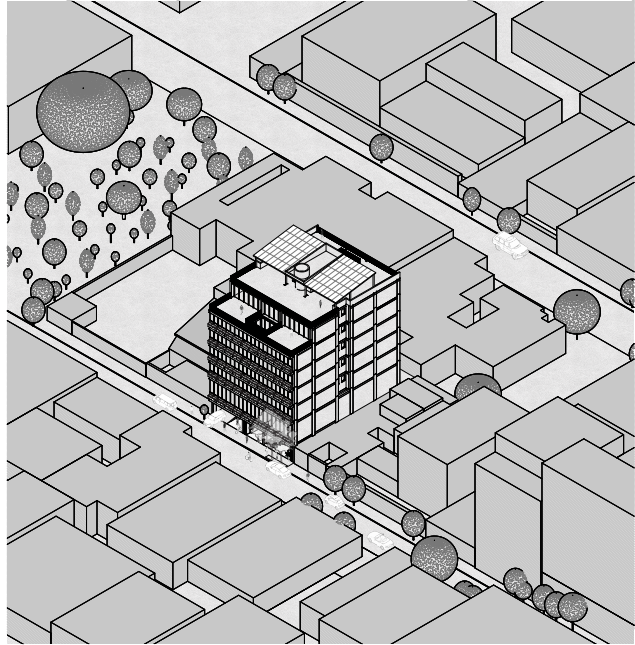
LOD 350

This architectural project was developed for the construction of a parking and office building on a 600 m² site in the city of León, Mexico.

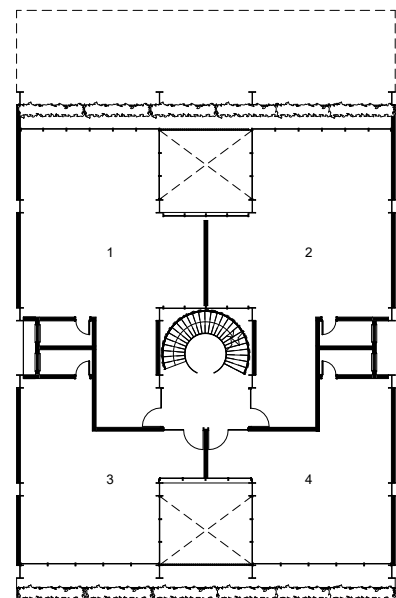
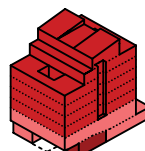
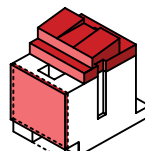
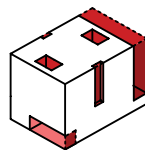
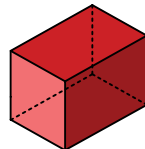
Preliminary studies included the site's location, where the possibility of constructing housing units, medical offices and offices was evaluated.

The building is located in a residential and commercial area that is rapidly changing its density from single-family homes to multi-family buildings.

The building has a total of 3,800 m² of construction, 2,200 m² of office space, 120 m² of retail space and 61 parking spaces. Construction is planned to begin at the end of 2024.



PB
1:400



Nivel 3
1:400



Ex Hacienda of Silva

Architectural preliminary project

2023 - en proceso

Revit + Illustrator

LOD 350

Architectural intervention and rehabilitation project in the Ex Hacienda de Silva, Guanajuato, Mexico.

The project resolves the creation of warehouses for Tequila factory, warehouse and resting place in an Ex Hacienda of the XIX century.

The project is based on an important pre-existence, as it is located on the ruins of the hacienda's old trojes, where the perimeter walls -which have been consolidated- and some column bases are still preserved. The materiality of the intervention and its construction technique correspond to the historical and patrimonial character of the hacienda. Construction is scheduled to begin at the end of 2024.



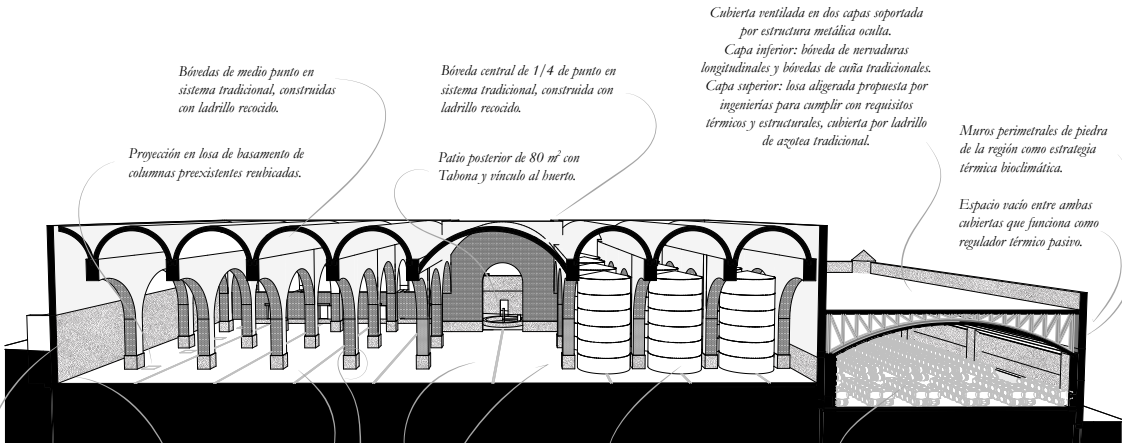
Current Plan

1:2000



Project Plan

1:2000



Bóvedas de medio punto en sistema tradicional, construidas con ladrillo recocido.

Proyección en losa de basamento de columnas preexistentes rembiadas.

Bóveda central de 1/4 de punto en sistema tradicional, construida con ladrillo recocido.

Patio posterior de 80 m² con Tabona y vínculo al buerto.

Cubierta ventilada en dos capas soportada por estructura metálica oculta.

Capa inferior: bóveda de nervaduras longitudinales y bóvedas de caña tradicionales. Capa superior: losa aligerada propuesta por ingenierías para cumplir con requisitos térmicos y estructurales, cubierta por ladrillo de azótea tradicional.

Muros perimetrales de piedra de la región como estrategia térmica bioclimática.

Espacio vacío entre ambas cubiertas que funciona como regulador térmico pasivo.

Muro de contención de piedra

Área de 1,280 m² para fábrica de tequila

Soterramiento en relación al nivel de suelo en el exterior de la bodega.

Basamento y columnas análogas con las preexistentes.

Área de 250 m² para maniobras

Un solo nivel de suelo en toda el área de fábrica y almacén.

Área de 880 m² para tanques de almacenamiento con capacidad para 18 tanques de 100,000 litros.

Área de 906 m² para barricas de reposo y añejamiento con capacidad para aproximadamente 3,660 barricas de 200 litros, estibadas en hasta seis niveles.



Galimatías

Cultural + editorial project

Fall 2016 - Present

Co-director

galimatias.mx



Galimatías is a group that arises from the need to create spaces that enrich the interdisciplinary training of architects mainly, but also of the community formed by artists, philosophers and designers in the city of Guadalajara.

It was born as an initiative to create spaces for dialogue, such as forums, conferences or exhibitions. However, over time it became a broader project, where we have made digital publications of essays and texts, printed publications of compilations of essays or particular works such as "Arquitecturas del fuego" by Alejandro Guerrero or "4 Filósofos y la arquitectura contemporánea" by Javier Ruiz de la Presa.

Our interest is to integrate to architecture other types of topics related to philosophy, literature, art, poetry, among others, to make an interdisciplinary community richer in content and discussion.

The project also included the reuse of a heritage house in the heart of Guadalajara, Mexico. It is the studio house of the architect Ignacio Díaz Morales. The house is occasionally used for social events. At the back of the house, there is a fronton court that we at Galimatías use as a forum space for practically all of our events. Generally, the events included lectures accompanied by exhibitions, book sales and live music to encourage dialogue after the presentations.

We have collaborated with architects such as Alejandro Guerrero, Andrea Soto, Salvador Macías, Magui Peredo, Juan Newton, Luis Aldrete, Sergio Ortiz, Carme Pinós and artists such as Jorge Méndez Blake and Carlos Ránc.





JUNO

Furniture design and manufacturing project

January 2020 - Present

Director

junotaller.com



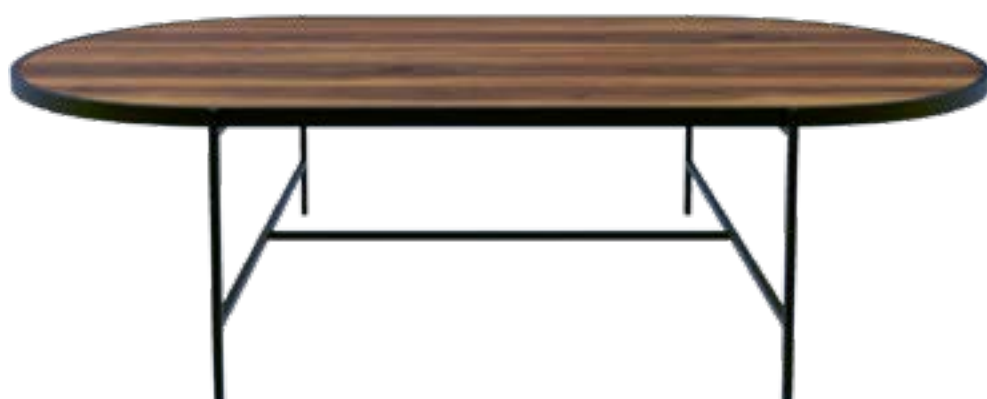
Juno is a workshop dedicated to the manufacture of urban and residential furniture made of ironwork, solid wood, marble, glass, leather and textiles.

The idea arises from the intention of linking architecture with the design and development of furniture of all kinds, understanding that there are different points of convergence between the spaces we inhabit and the furniture that make it easier for us to live.

The undertaking of this project has allowed me to get involved with the design and manufacturing processes from the smallest scale that can be found in architecture. In addition, the experience in the recognition and use of different materials and manufacturing techniques in blacksmithing, carpentry and the different ways to work marble, granite or other stone materials.

In the administrative aspect it has also been an enriching project because beyond the design and manufacture of products, it is important the management at the business level, from the work of sales, catalog creation, administration of social networks, creation of business models, administration and updating of the website, economic and fiscal administration, among many other tasks that enrich my training as an architect and my ability to solve.





Thank you!