

ARCHITECTURAL PORTFOLIO



Arch. Daniel Bunay C.
2021 - 2024



DANIEL BUNAY C.

Architect • MSc in Architecture and Urban Design

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www.linkedin.com/in/daniel-bunay

Summary

Architect, Based in Milan. Experienced in Architectonical and Urbanistical Design with advanced knowledge in Adobe platforms, AutoCAD & 3D modelling, 2D Linear Artwork and visual representations in the urban and architectural field.

Areas of Expertise

Professional Skills : Teamwork and Collaborations / Communication Skills / Problem Solving / Project Management / Adaptability and Flexibility / Client Adquisition / Design 2D & 3D / Retail and Commercial Architecture / Interior Design / Post Production Competence / Residential Architecture and Design

Technical Skills : Adobe Cloud (Illustrator, Photoshop, Indesign) / Microsoft Office (Word, Excel, ppt) / Autocad / Revit / Sketchup / Lumion 3d Rendering / Vray / Enscape / Rhino

Professional Experience

Junior Architect Intern / Studio Arc - Roberto Carlando / Milan, IT Feb 2024 - Apr 2024
Renovations and refurbishments of residential and commercial buildings, Interior design and proposals of spaces from exterior to interior details. On site project interventions and office work drawing layouts of different projects in the city of Milan. References: +39 335 686 9775
- CAD Drafter and 3D Visualizations
- Digitalizing facades and plans of On site buildings
- Conceptual and Design Propositions

Architectural Project Technician/ Municipality of Samborondon District / Guayaquil, EC Aug 2021 - Jun 2022
Construction Department. Residential and commercial inspections according to the municipal district guidelines of construction. Onsite and office work on different closed residential buildings according to construction permits and final inspections. References: +593 45126035
- Construction Permit Supervisor
- Construction Inspector
- Regulator and Urban Properties Data Analyst

Architectural Project Manager/ Grupo Bunay (@BunayGonzalez) / Guayaquil, EC Aug 2020 - Nov 2021
Construction and Design Department. From interior design to commercial and residential architecture, studio who emphasizes into comfortable and deluxe spaces from the start until the end of the construction. References: +593 98 989 0076
- Designer and Project Planner - 3D Renderist
- Project Management - Project Management and Supervision
- Landscape Designer

Junior Architect / Moreno Construcciones / Guayaquil, EC Dec 2019 - Feb 2020
Renovations and construction Enterprise. Specialized in materiality and commercial and residential interior design such as stores, public services buildings and departments.
- Technical Architecture Assistant - 3D Renderist
- CAD Drafter
- Project Management Assistant

Education

Master in Architecture and Urban Design - Politecnico di Milano - Gpa: 109/110 - Milan, IT Sep 2022 - Oct 2024
Architect - Universidad Catolica de Santiago de Guayaquil - Gpa: 8.05/10 - Guayaquil, EC May 2014 - May 2021
International Baccalaureate - American School of Guayaquil / Guayaquil, EC 2007 - 2014

Certifications and Competitions

Kaira Looro Primary School Competition Top 50 / Kaira Looro Architecture Competition / 2023
Urban Real State Course / CODADEPRO / 2019
International Baccalaureate Diploma / IB/ 2014

Languages

Spanish / Native
English / Bilingual / C1 - ETS TOEFL IBT 9795
Italian / Intermediate / B1 - CISIA-TEST ITALIANO L2 220614

Publications

Thesis Project BArch/ Community Health Center UCSG / http://repositorio.ucsg.edu.ec/handle/3317/16416

Thesis Project MsC/ Reimagining borders of coexistence : Design for human-nature Interactions in the Galapagos Islands / https://www.politesi.polimi.it/handle/10589/226787



1



Hospitalarian

2



Residential

3



Urban

4



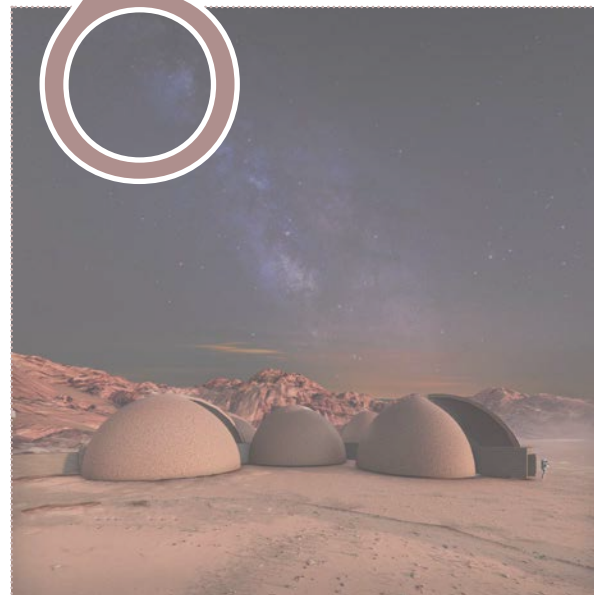
Social

5



Humanitarian

6



Researchal

7



Educational

8



Production

Academic Project
Thesis BArch
Health Sub - Center / Guayaquil - ECU

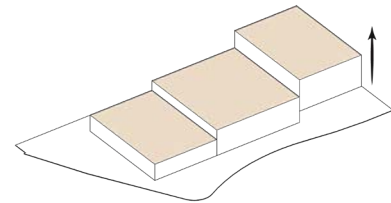
Universidad Catolica de Santiago de Guayaquil
Architecture and Design Faculty
2021

The following proposal, prior to obtaining a degree, presents as its main theme the development of a facility to be designed along with its urban component for the Cerro San Eduardo sector, which has two cooperatives, Coop. 25 de Julio and Virgen del Cisne, in the city of Guayaquil in the northwest of the same. As a group project, 5 different facilities are proposed: a multi-functional bus station, market, cultural center, health sub-center, and daycare, in order to meet the needs of the sector's residents that were identified through a prior site analysis carried out by the UCSG Linkage students.

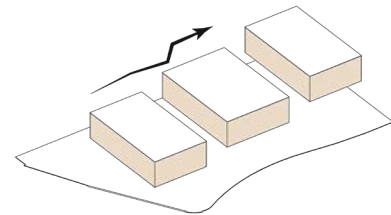
The main idea behind the concept is to break the stereotype of a closed box-type health sub-center that is common at the national level and to establish a direct relationship with the environment and the user.

The entire health sub-center will be inspired by its context, openings, vegetation, and streets, in such a way that it breaks the stereotype of a small and closed cube, creating a great flow of walkways and openings that is necessary in the current pandemic context.

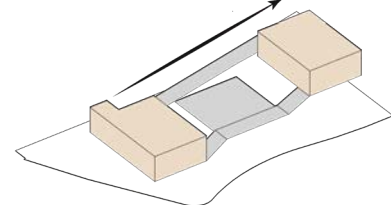
Programs used: **Autocad 2021 / SketchUp / Enscape / PS/ Adobe Illustrator**



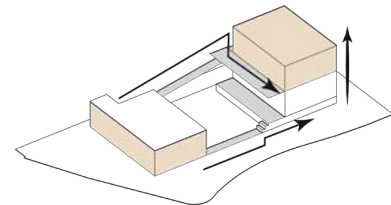
Form coupled to stepped topography of prisms.



Separation of prisms into 3 different levels coupling to the terrain



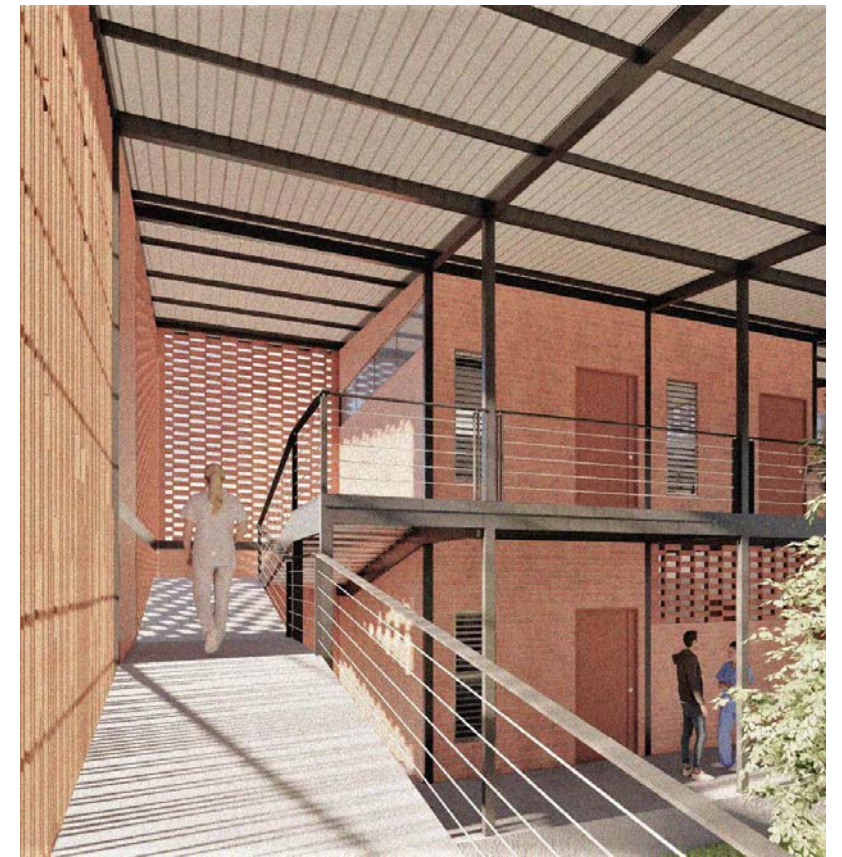
Upward joining of prisms through ramp accessibility



Union by ramps and steps between prisms, addition of module at the highest level for visuals



Main Entrance

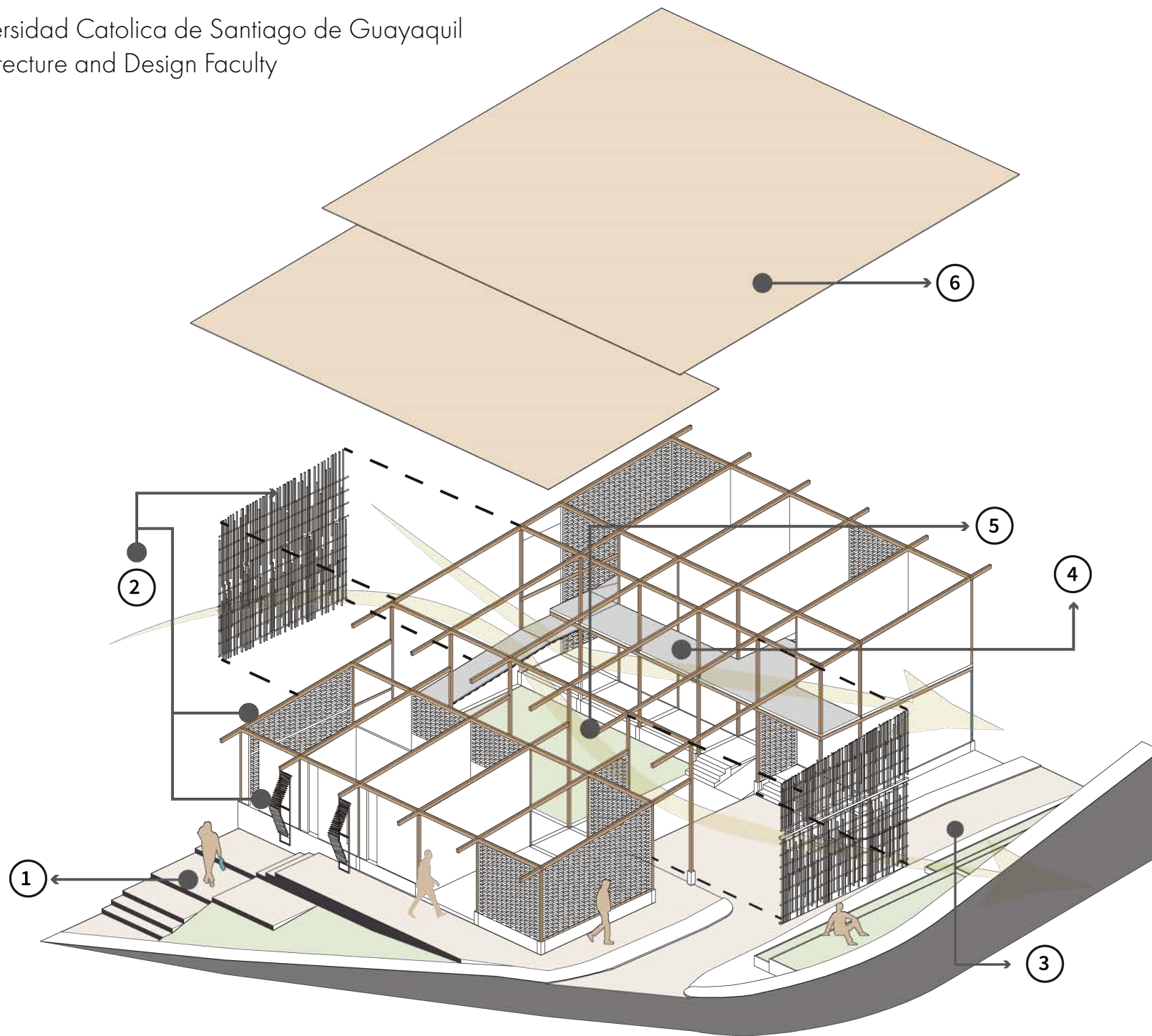


Inner Circulation

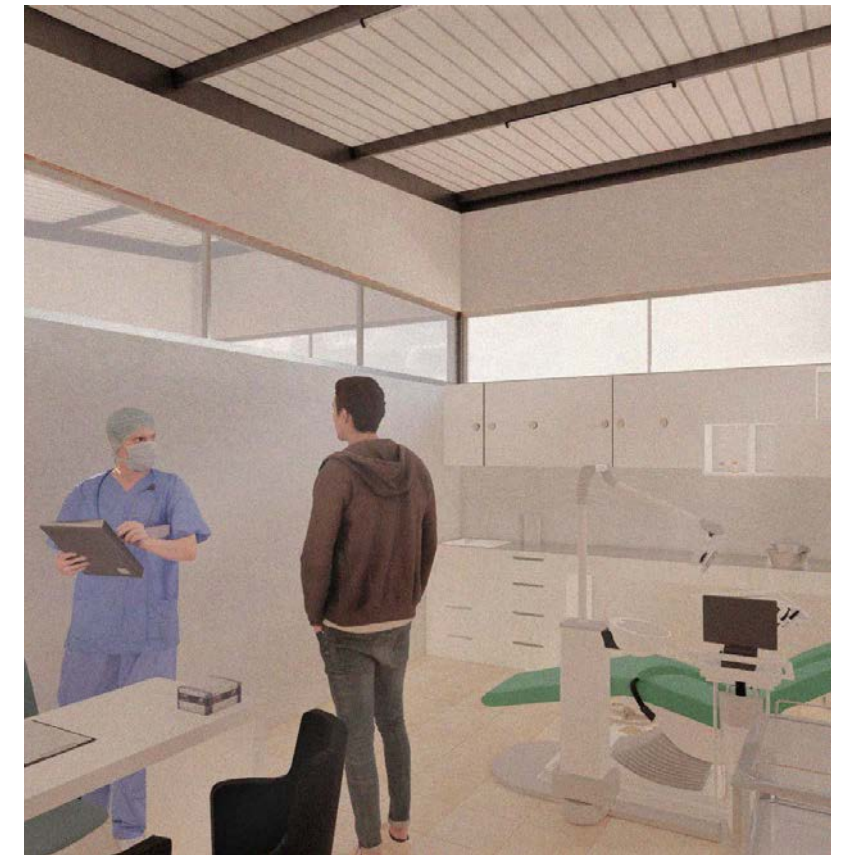


Academic Project
Thesis BArch
Health Sub - Center / Guayaquil - ECU

Universidad Catolica de Santiago de Guayaquil
Architecture and Design Faculty
2021



- 1/ Multilevel:** Stepped walkway to entrance and different level in modules
- 2/ Permeability:** Perforated bricks and wooden lattices
- 3/ Re-Activation of Space:** Main entrance with activation of short public green space
- 4/ Terraces and sightseeing zone:** Open Walkways and ramps on height giving visual to the context
- 5/ Central Space:** Hierarchy of spaces between entrance and green space
- 6/ Tilted double roof:** Dominant roofing divided in two levels for entering wind and developing a comfortable inner space



Odontology care room



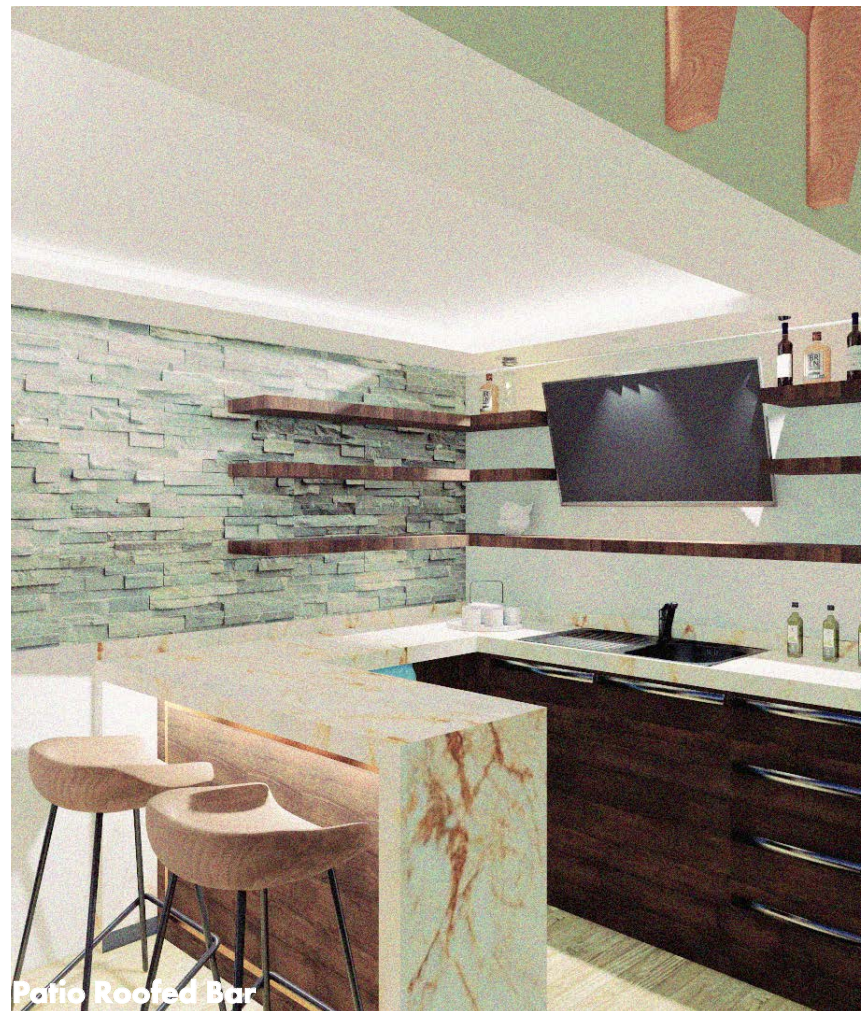
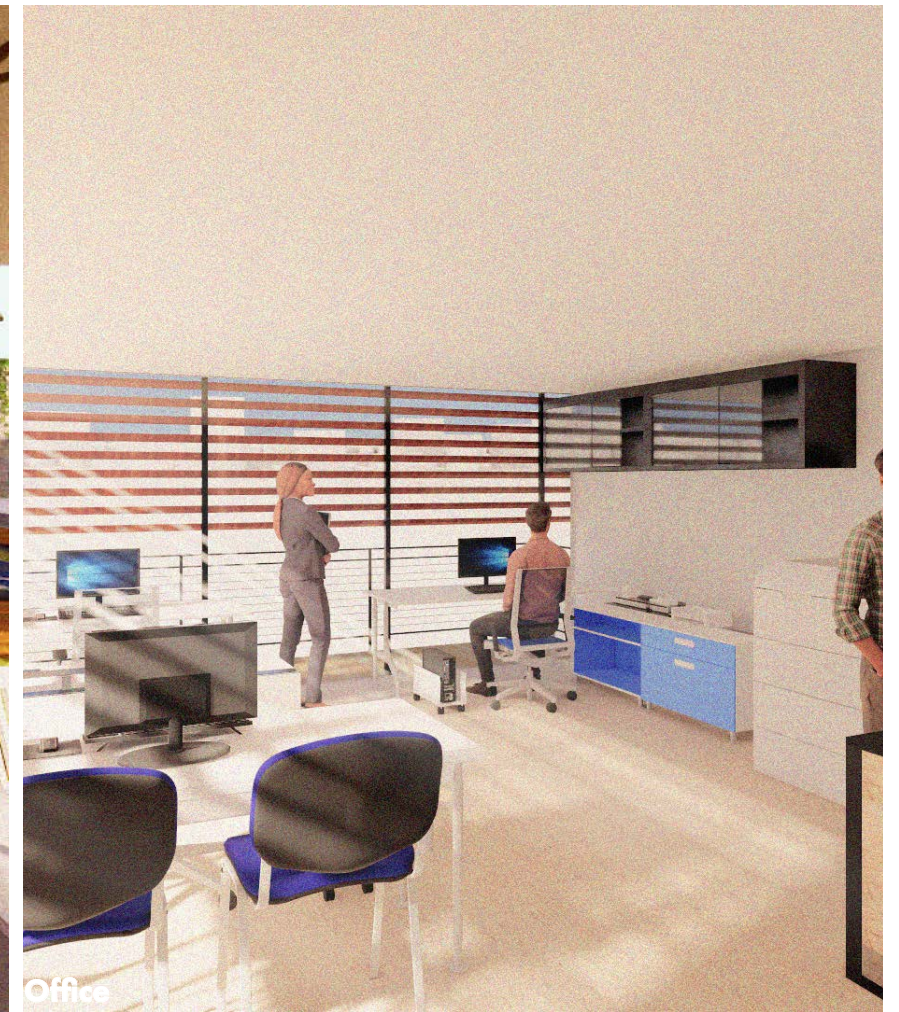
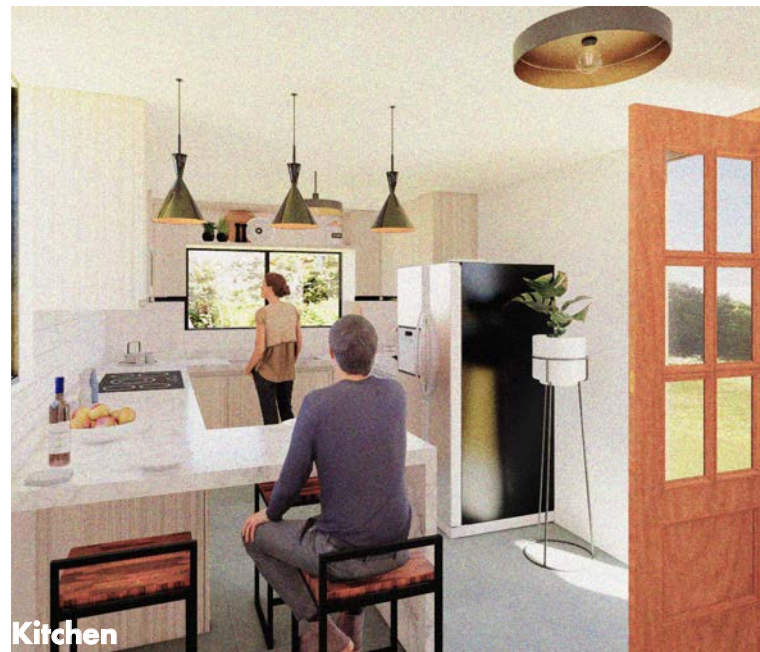
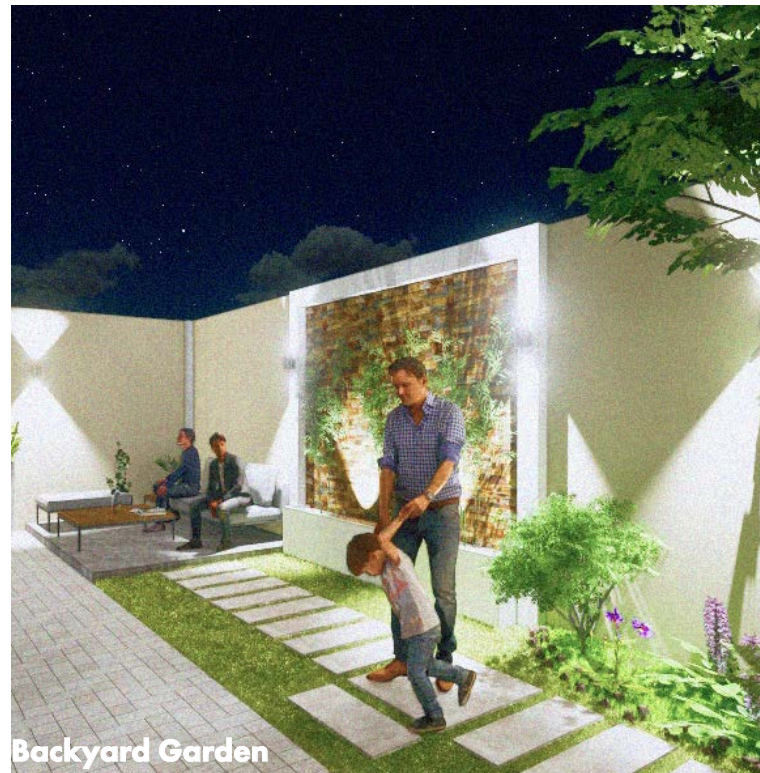
Secondary entrance / Waiting Hall

Projects
Professional Experience
Residential Proposals / Guayaquil - ECU

Grupo Bunay (@BunayGonzalez)
Project Management
2020 - 2021

Different proposals made throughout my whole period at Grupo Bunay where we focus on producing commercial and residential projects for the city of Guayaquil and its surroundings.

Programs used: **Autocad 2021 / SketchUp / Enscape**



Academic Project
1st Year / Urban Design Studio
**Bovisasca Revitalization “InteGrid” /
Milan - IT**

Politecnico di Milano
Architecture Faculty
Sep 2022 - Jan 2023



Inte-GRID MASTERPLAN

- LEGEND
- 1 Community Garden
 - 2 Via Bovisavasca / Main Street
 - 3 Woonerf Streets
 - 4 The New Market
 - 5 The Skate Park
 - 6 Cycle Track
 - 7 Social Housing
 - 8 Connector Street
 - 9 Social Housing / Public Park
 - 10 Intervention Street
 - 11 Politecnico di Milano
 - 12 Spirit of Milan
 - 13 MoleCola Future Project

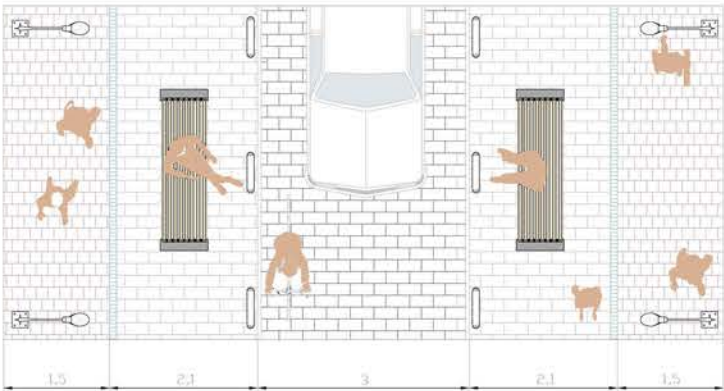
- Public Green Area
 - Resting Space
 - Playground
 - Social Gatherings
- Agricultural Green Spaces
 - Community Garden Zone
- Private Green Area
 - Private Social Housing Green Zone
 - Playground
 - Social Gatherings
 - Resting Space
- Bicycle Lane
- Green Street Lane
- Future Bovisavasca Projects
- Building Proposals

- FUNCTIONS
- 4 The New Market
 - Coworking Space
 - Retail
 - Study Rooms
 - Student Housing
 - Student Hostel
 - New Marketplace
 - Cafeteria
 - Food Counter
 - 5 The Skate Park
 - Ateliers
 - Student Housing
 - 7 Social Housing
 - Cinema / Gallery
 - Social Housing
 - Cafeteria
 - Offices
 - 9 Social Housing / Public Park
 - Industrial Photography Gallery
 - Pottery Workshop
 - Cafeteria
 - Gardening
 - Social Housing



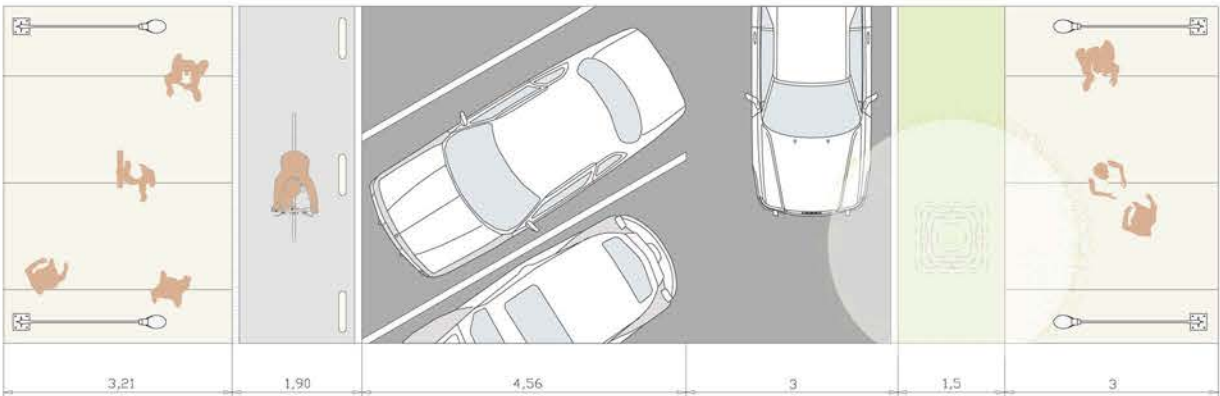
The public space has always been a crucial component in the planning of a city. It is a catalyst for residents’ social activities, an urban approach to gather and unite different groups of society and in itself a recreation centre for the thing we call community. Because of the named reasons this design proposal, depicted and described in the following pictures, has a deep understanding for the importance of the public space. It becomes the main dimension in our project, evolving in a sequence of design approaches, which all aim to bring together and fill the missing parts of a neighbourhood in the periphery of Milan.

Programs used: **Autocad 2021 / PS/Adobe Illustrator**



Section B

In order to revitalize the connection between the intervention and the rest of Bovisa district and make it more livable for the users, the streets were separated between functions (Main street, woonerf, connector street and revitalization street), all of this streets have different measurements and elements in order to fulfill the district and direct street necessities, could be commercial or social. The functions are open but limited and the elements such as curbs or corners harmonize the street and give order to it for the pedestrians and transportation be at the same level of importance.



Section D

Academic Project

1st Year / Architectural Design Studio

Reidentification Embroidery Guest House - Paizha Village / Guizhou Province - China

Collaborative project (Cecilia del Carlo, Matteus Szemack, Ji Yao)

Politecnico di Milano in collaboration with Zheijang University

Architecture Faculty

Feb 2023 - June 2023

The extensive re-identification program in the charming Chinese village of Paizha is an example of how tradition and modernity can coexist together. Its main goal is to increase the village's historical and cultural significance while promoting tourism and conserving the inherently charming qualities of small-town life. The project, which is located in the serene south-western section of this village treasure, entails finishing a parking lot and repairing the symbiotic interaction between farming and the hamlet.

The Guest House, the project's focal point, serves as a metaphorical link between Paizha's historical architecture and modern design. With fluid transitions between corridors and riverside plazas, it skillfully reinterprets the village's architectural typology while adhering to its fundamental ideas of interconnected open and closed spaces.

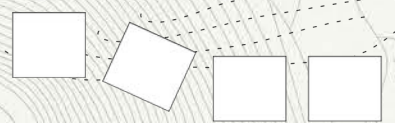
The project is essential to greeting visitors and acts as a showcase for Paizha's diverse cultural heritage. The building's ground level serves as a warm embroidery workshop and shop, generating a lively setting where guests may see examples of regional workmanship. Vibrant markets are held in a nearby outdoor square, which highlights the village's ethnic diversity.

In essence, this innovative project not only revives the historical and cultural significance of Paizha Village, but also offers a model for responsible and sustainable tourism growth that honors the village's personality and identity.

Programs used: **Revit 2023 / Autocad 2021 / PS/Adobe Illustrator**



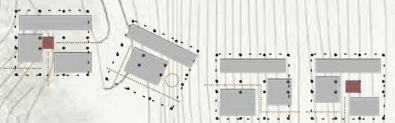
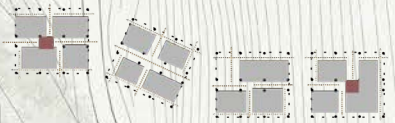
SEQUENCE OF VOLUMES RESPONDING TO THE NECESSITY OF FUNCTIONS AND GUEST HOUSES



ADAPTATION TO TOPOGRAPHY MAINTAINING THE SAME SEQUENCES



TECTONIC CONCEPT IMPLEMENTATION BY THE FORMATION OF A GRID PATTERN ALONGSIDE THE STRUCTURE IN VOLUMES, ALLOWING THE STRUCTURES TO FORM THE FUNCTION



VOLUMES FORMING AT THE INTERIOR OF THE STRUCTURE MORPHING IT TO CREATE DIFFERENT TYPES OF CIRCULATION WITHIN THE BUILDINGS BOUNDARIES FROM THE GROUND FLOOR TO THE FIRST UPPER FLOOR

The main building intervention hosting the embroidery workshop and the guest housing is developed taking its positioning related to the context and topography into consideration. With it being located along the hill right by the Tourist Center, it adapts to the topography curves following the traditional principle of cluster adaptation to the mountain that often recurred in Miao villages. Moreover the building is developed considering the centrality of the circulation and readapting some traditional Miao elements such as the staircase, as well as developing in the shapes of cubes that shift and facilitate a free flow within the building system.

Academic Project
1st Year / Architectural Design Studio
**Reidentification Embroidery Guest House -
Paizha Village / Guizhou Province - China**
Collaborative project (Cecilia del Carlo, Matteus
Szemack, Ji Yao)

Politecnico di Milano in collaboration with Zhei-
jang University
Architecture Faculty
Feb 2023 - June 2023



Aerial View



INTERIOR VIEW - Embroidery Workshop Area

The main function developed within the project is dedicated to an embroidery workshop. The workshop aims to create an opportunity to support the local handcraft traditions such as the embroidery one. A series of spaces is created to provide a chance to get in touch with the craft for both locals as well as for potential visitors of the village.

Following the influence of traditional Miao housing, this part of the project is meant to create a new connection between the traditional houses and contemporaneity, contrasting the new generations' trend to make use of new modern materials and techniques applied for new housing in Paizha Village.



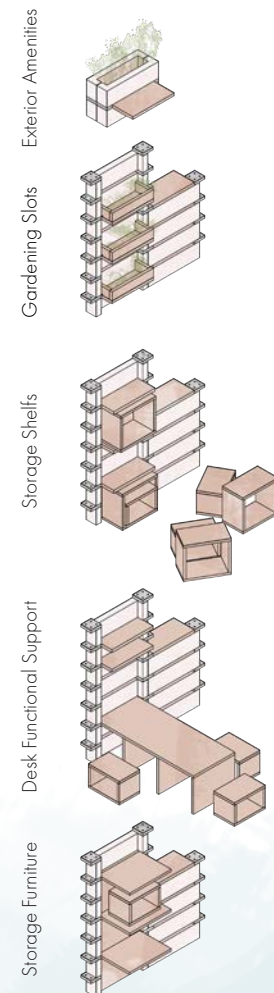
Competition Project
Primary School / Africa

Kaira Loor Competition 2023 - Top 50
March 2023 - June 2023
Collaborative Project Ft. Arq. Aldo Quingalahua Loor

The primary school's design is a reaction to the unique demands and difficulties of its setting. Our main objective is to create an innovative building method, which will streamline the construction process and involve the community. In order to do this, we have created an adaptive construction method based on a flexible material that allows for creative shaping. We have rethought the traditional brick, incorporating its strength and adaptability while introducing the concept of "SLOTS."

Programs used: **Revit 2023 / Autocad 2021 / PS/Lumion / Adobe Illustrator**

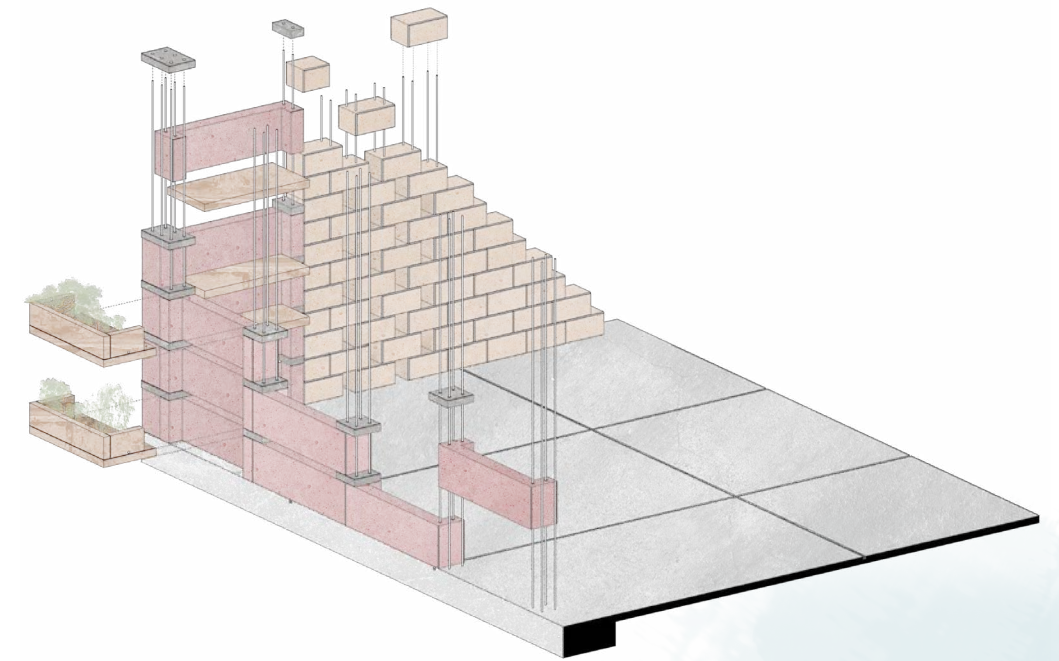
**FUNCTIONAL MATERIAL
CONCEPT // SLOTS**



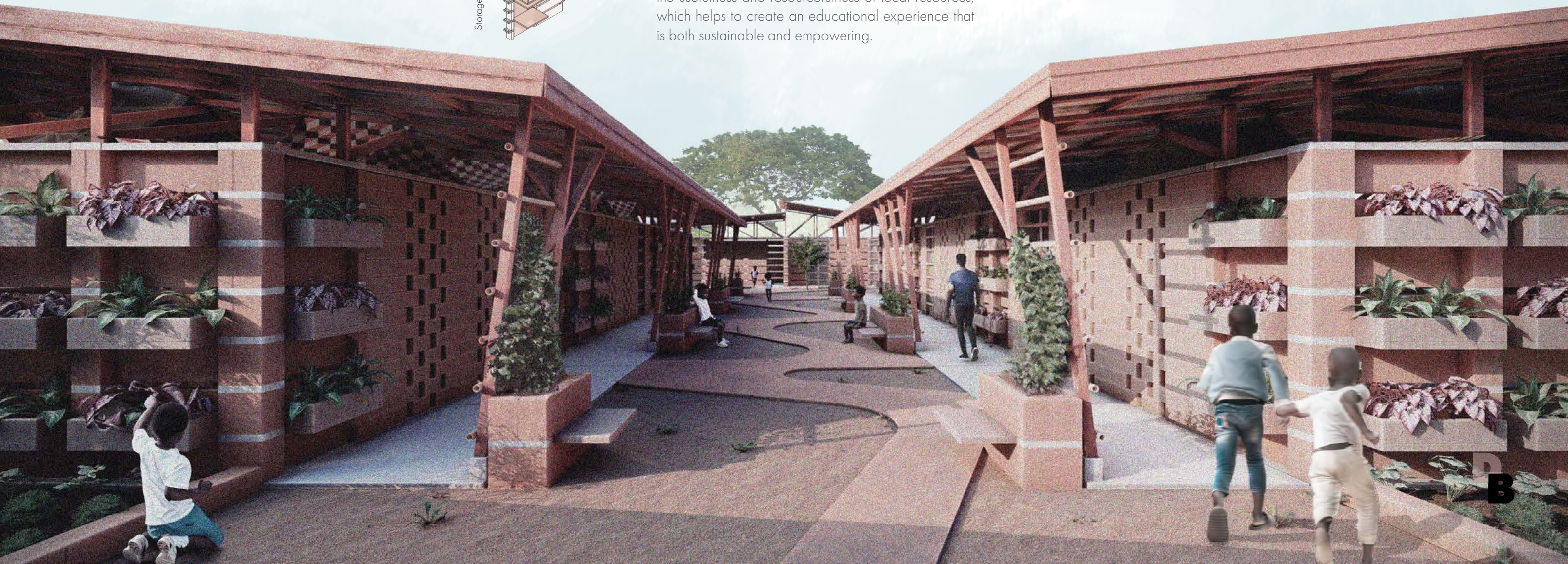
The Material, is more than just a catalog to be followed, itself can be transformed from its core and the typical use. The purpose of this project is focused on an element and how this element can be a participant into the construction, formality and functionality of the project. It comes from the traditional brick and the cataloged flexibility that this element can create, but what happens if the brick changes?

Handmade U-shaped Red Clay brick, new element created from scratch into the building forming flexible spaces and walls by following the SLOT concept of void/full and insert/detach. Since the context of the project is a general location in Senegal, Africa, the building, by the material itself can be easily transformed and adapted into multiple positions or environments making the built more versatile and manageable with its own morphology of regular volumes and organic pathways can allow.

The project intends to increase the usefulness and adaptability of the school environment by utilizing the potential of these materials, producing effective storage options, dynamic spaces, and encouraging community involvement. This method places a strong emphasis on the usefulness and resourcefulness of local resources, which helps to create an educational experience that is both sustainable and empowering.

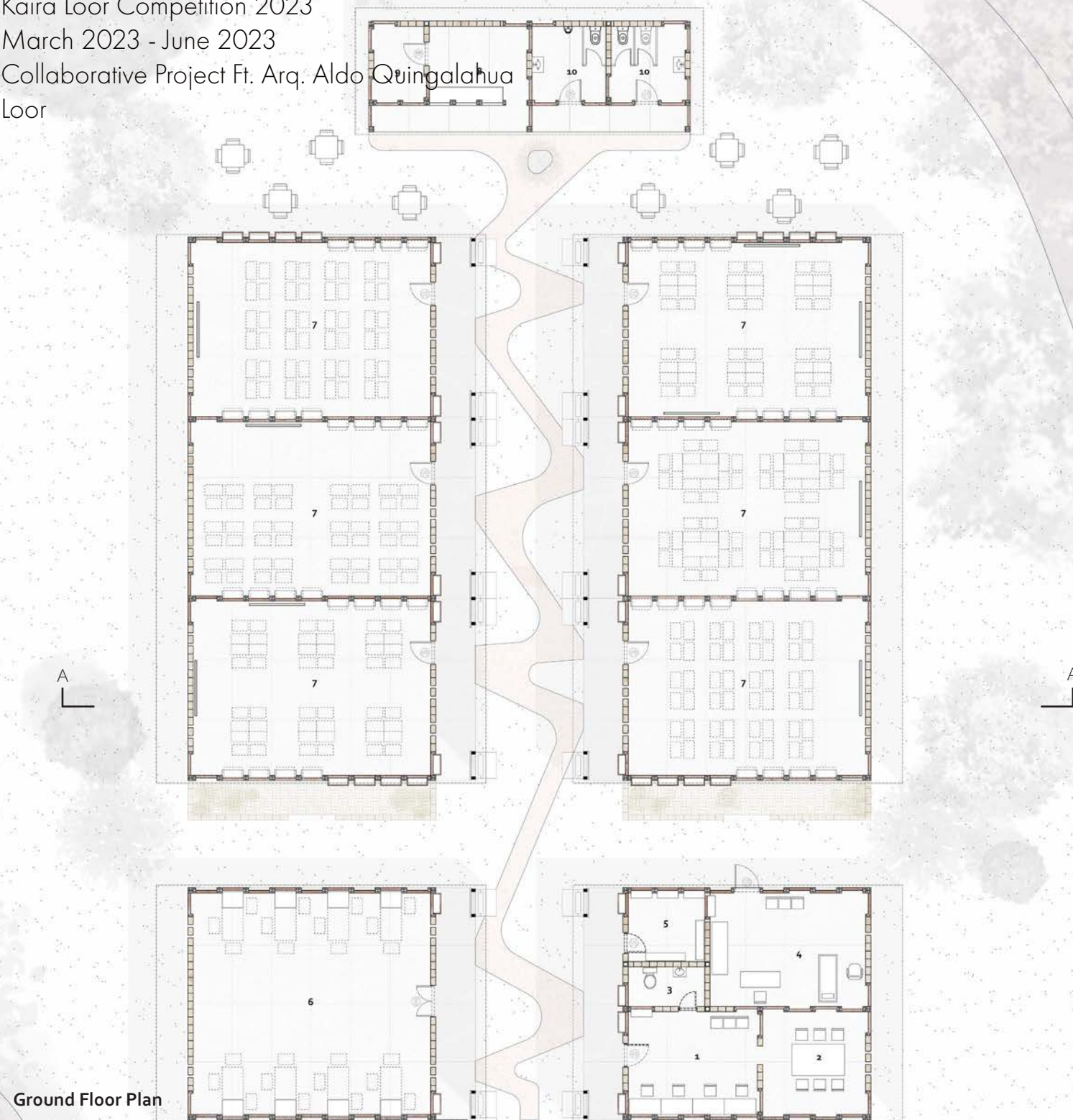


Constructive Process - Wall - Corner



Competition Project
Primary School / Africa

Kaira Loor Competition 2023
 March 2023 - June 2023
 Collaborative Project Ft. Arq. Aldo Quingalahua
 Loor

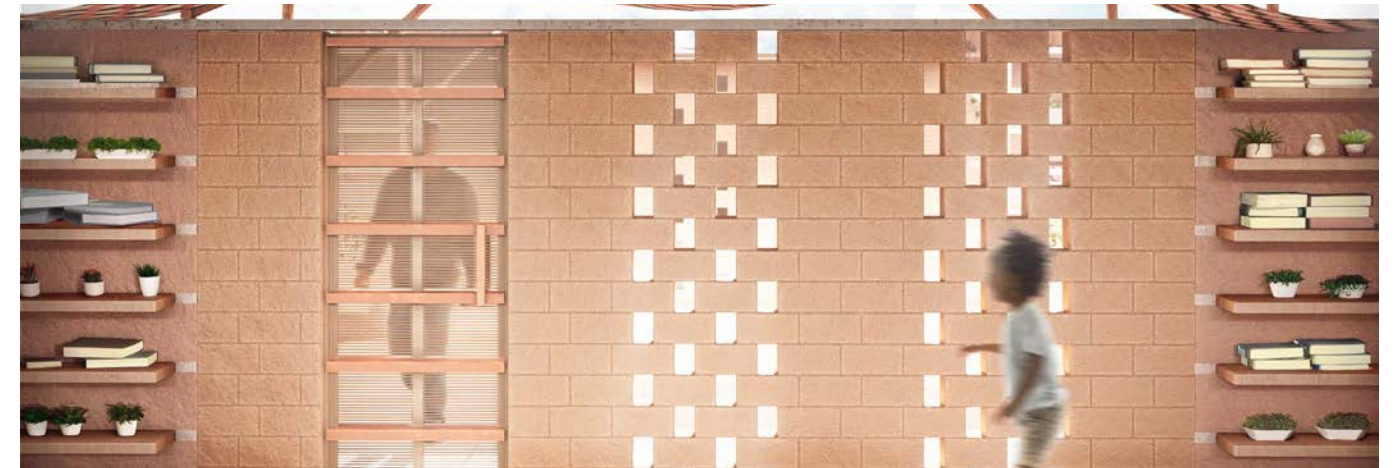


Ground Floor Plan

1. Administration
2. Teachers Meeting Room
3. Teacher's W.C
4. Sickroom
5. School Supplies Storage Room
6. Laboratory Area
7. Classrooms
8. Canteen Meal Prep. and Provision Area
9. Canteen Storage Room
10. Students W.C



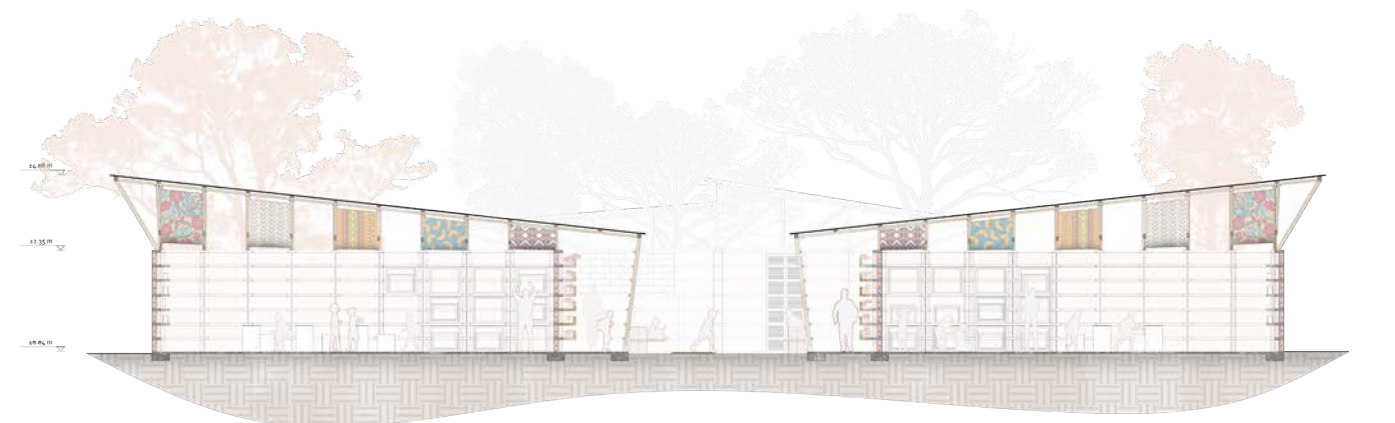
Classroom View



Wall Texture - Interior



Wall and Structure - Exterior



Section A-A'

0 1 2 5



Academic Project
Arch Nest - Mars

2nd Year - Architecture for Human Space Exploration
Space Arch Polimi
Sep 2023 - Feb 2024

The project aims to develop a research and investigation program on Mars. The research seeks to study the possibilities of Mars for a future settlement. This research will be long-term and by conducted by a crew of 12 people. The proposal seeks the growth of human in a new and hostile place and how to overcome it in the simplest of ways of self made structures using mars resources mixed with earth and human made machinery and materials. Ergolith + Metal + Fiber plastic Inflatable Pods

Additionally, the project envisions a comprehensive approach to sustainability, focusing on utilizing Martian resources to reduce the reliance on Earth-sourced materials. . The goal is to establish not only a temporary settlement but a self-sustaining habitat that can support human life in the long run. This pioneering research program aims to unlock the potential for human expansion beyond Earth, fostering a deeper understanding of adaptation, resource utilization, and resilience in the face of the unique challenges presented by Mars.

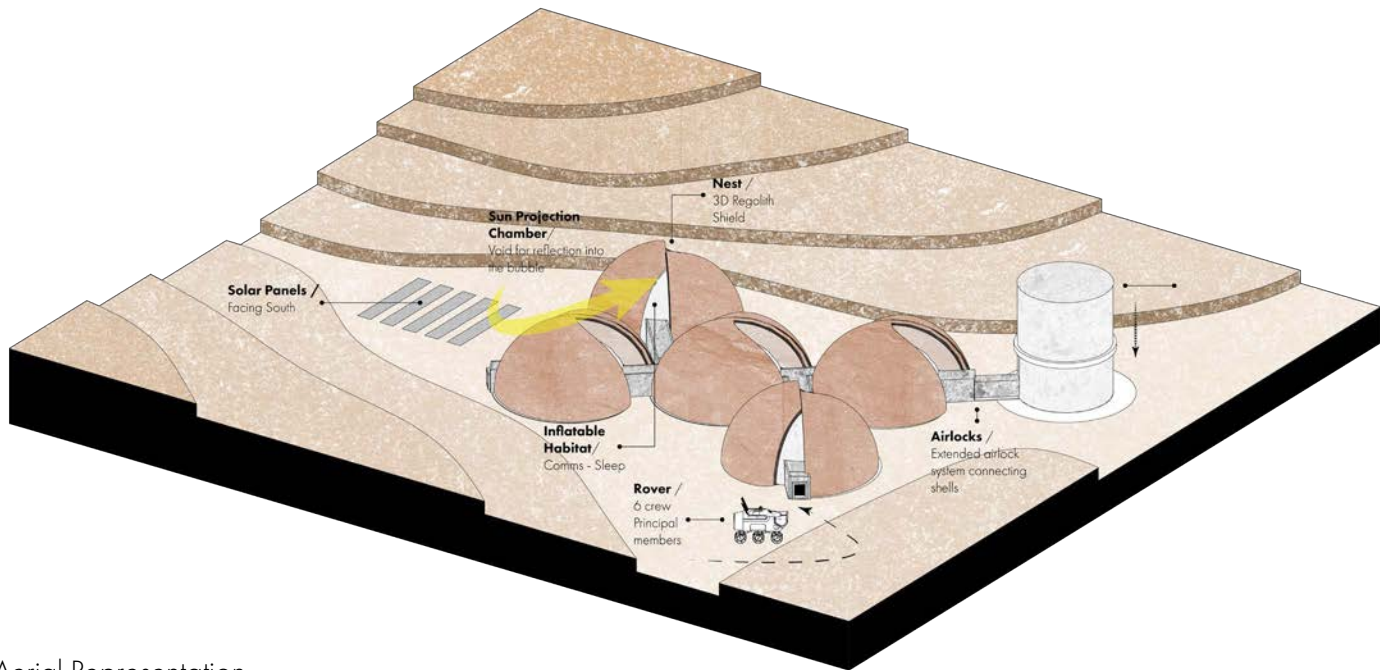
Programs used: Revit 2023 / Autocad 2021 /Sketchup 2022/ PS/Lumion /Adobe Illustrator



Studio Room



Main Circulation



Aerial Representation



Academic Project
**Tommaseo School Intervention / Busto Ar-
sizio - IT**

2nd Year / Thematic Studio - Space and Facilities
for School Building
Sep 2023 - Feb 2024

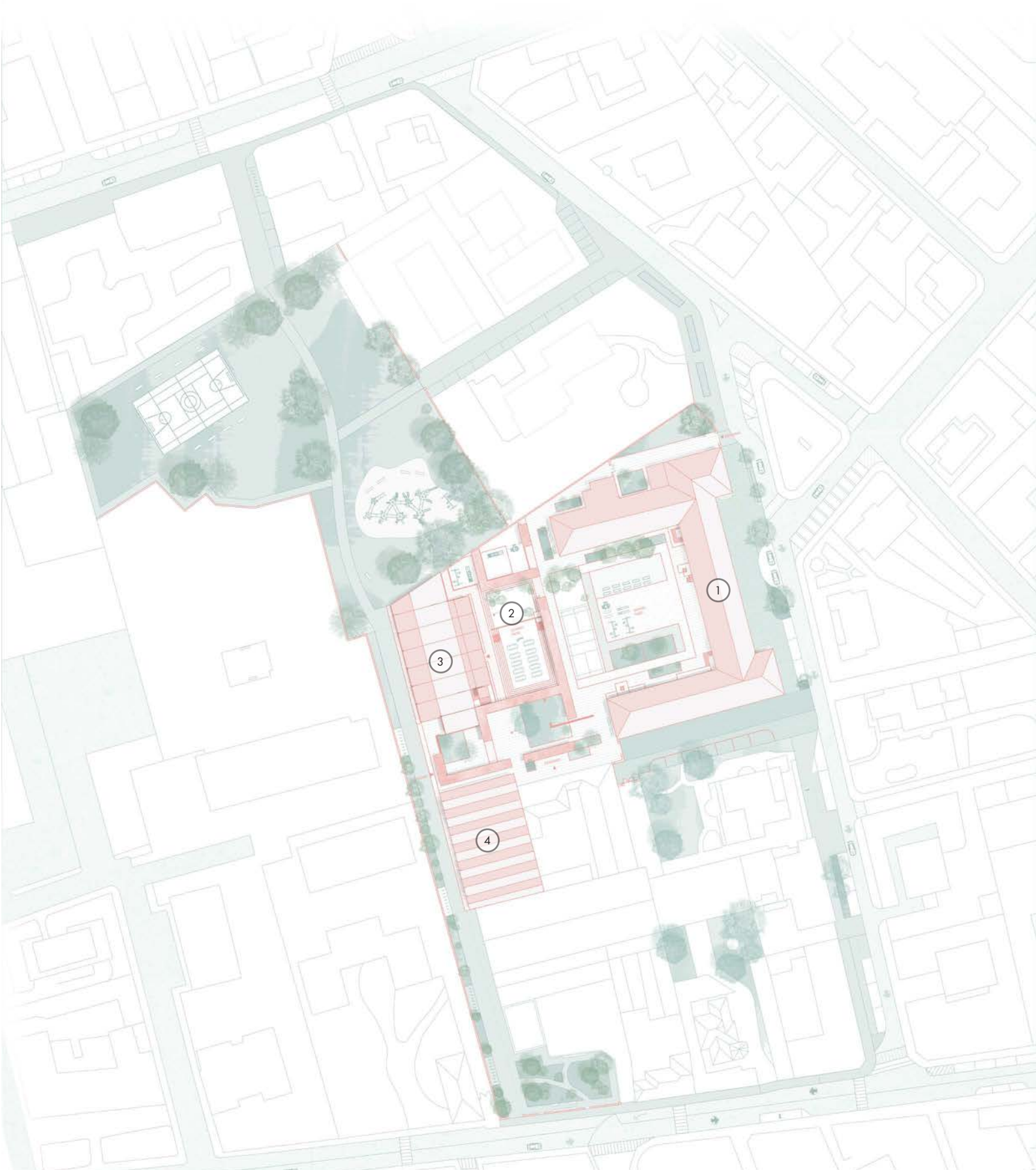
Collaborative Project (Arq. Bilal Mu’Azzam, Arq.
Majd Younes)

The design comes to life from the concept and function of a cam-
pus in which activities are spread but belongs to a same system,
a recreational system for students gather in diferent and contro-
lled spaces due to the fact that the students are from the 3-15
years old and the school is divided in 3 blocks each one serving
the different ages. In consequence the school became narrow
and linear, with the campus intervention the kindergarten will be
moved to a more accesible area with more didactive spaces
within and the primary school will remain in the same place while
refurbishing the existent building with new opaque systems. As
for the sports center will be at edge of the urban area corridor to
serve the students in the day and normal users in the afternoon.
Connectivity and multilinear corridors will be the nerve of this
campus.

Programs used: **Revit 2023 / Autocad 2021 / PS/Lumion /
Adobe Illustrator**



Aerial View



Legend

- 1_School
- 2_ Sunken Patio / Kitchen / Archives
- 3_ Kindergarten / Library / Assembly Hall
- 4_ Sports Hall / Gym



Academic Project

Tommaseo School Intervention / Busto Arsizio - IT

2nd Year / Thematic Studio - Space and Facilities
for School Building
Sep 2023 - Feb 2024

Collaborative Project (Arq. Bilal Mu'Azzam, Arq.
Majd Younes)



Academic Project
Thesis MSc in Architecture and Urban Planning
**Coffee Production Facility / Santa Cruz,
Galapagos Islands - EC**

Politecnico di Milano
Architecture Faculty
March 2024 - Oct 2024

Collaborative Project Ft. Arch. Daniela Alcocer

The coffee production facility located in the entrance of the highlands of Galapagos, where the wild nature meets the urban, aims to combine sustainable farming with tourism through showcasing the area's unique coffee traditions. This project seeks to showcase the complete coffee production process, from growing to drinking, in an environment that seamlessly integrates with the nearby scalesia forest. The facility, dedicated to coffee, serves as a sanctuary that not only highlights the area's farming methods but also takes advantage of its popularity among tourists. The emphasis in the design is on transparency, promenade, and atmosphere, creating an immersive experience that links visitors to the core of coffee culture. Using this method, the facility brings together producers, tourists, and the environment to create a new way of living that combines production and conservation. This approach not only benefits rural residents and farmers but also caters to the demands of eco-conscious tourists seeking authentic experiences. Importantly, coffee plantations can be integrated into reforestation projects involving native Scalesia trees, creating natural corridors that enhance the habitat for bird species. This dual-purpose strategy ensures that agricultural practices support biodiversity conservation, promoting a harmonious balance between human livelihoods and the natural ecosystem.

Programs used: **Revit 2023 / Autocad 2021 / PS/Lumion / Adobe Illustrator**

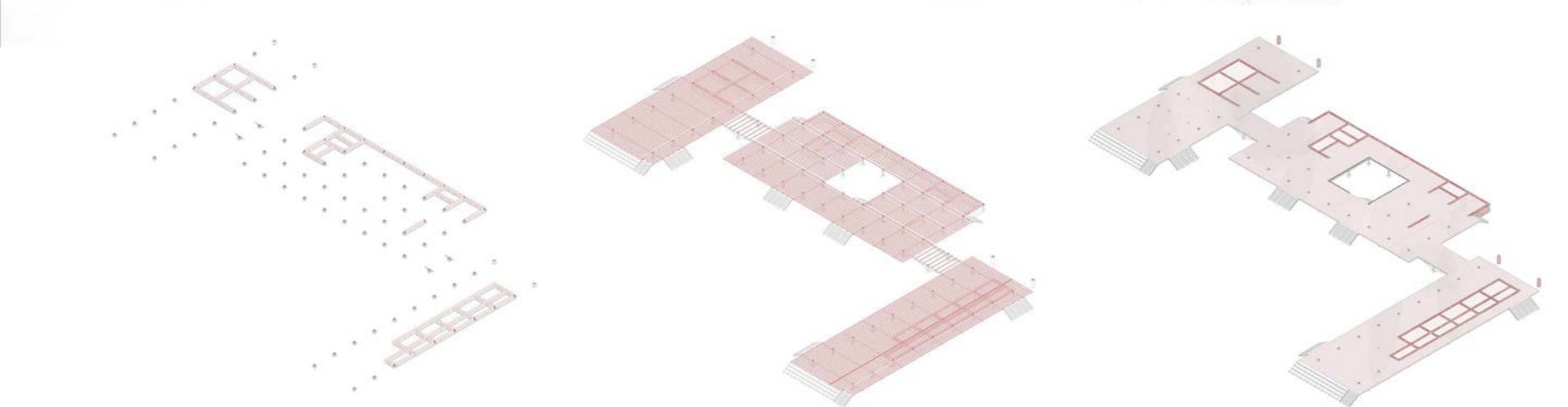
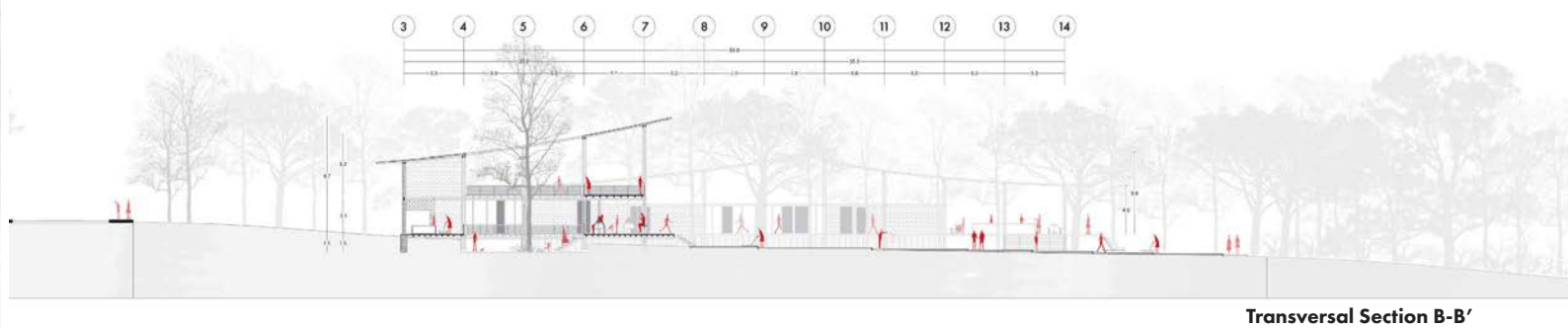
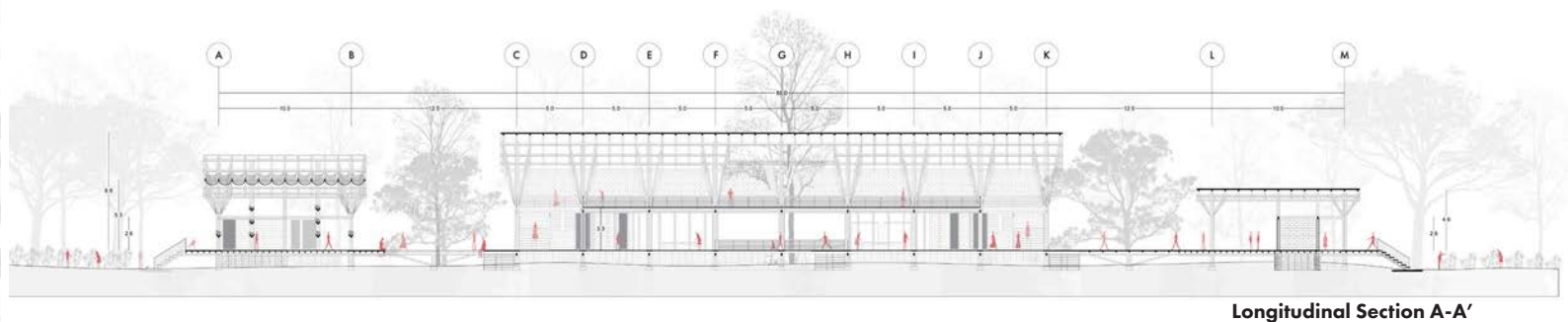
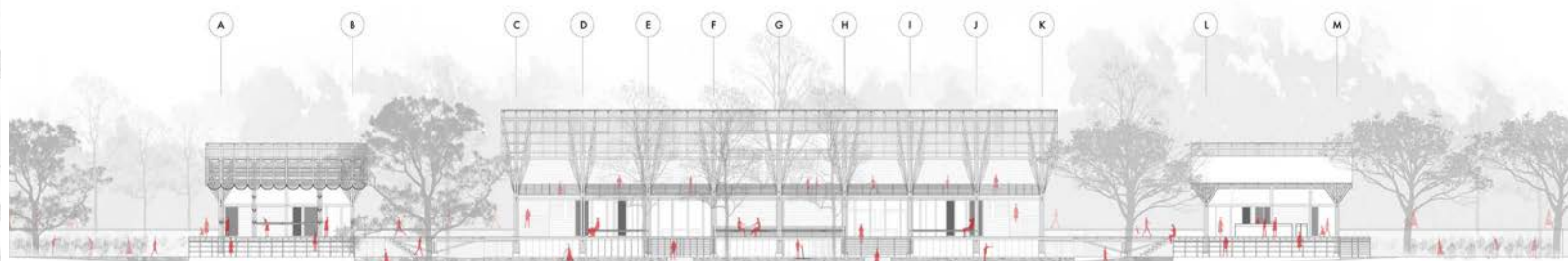
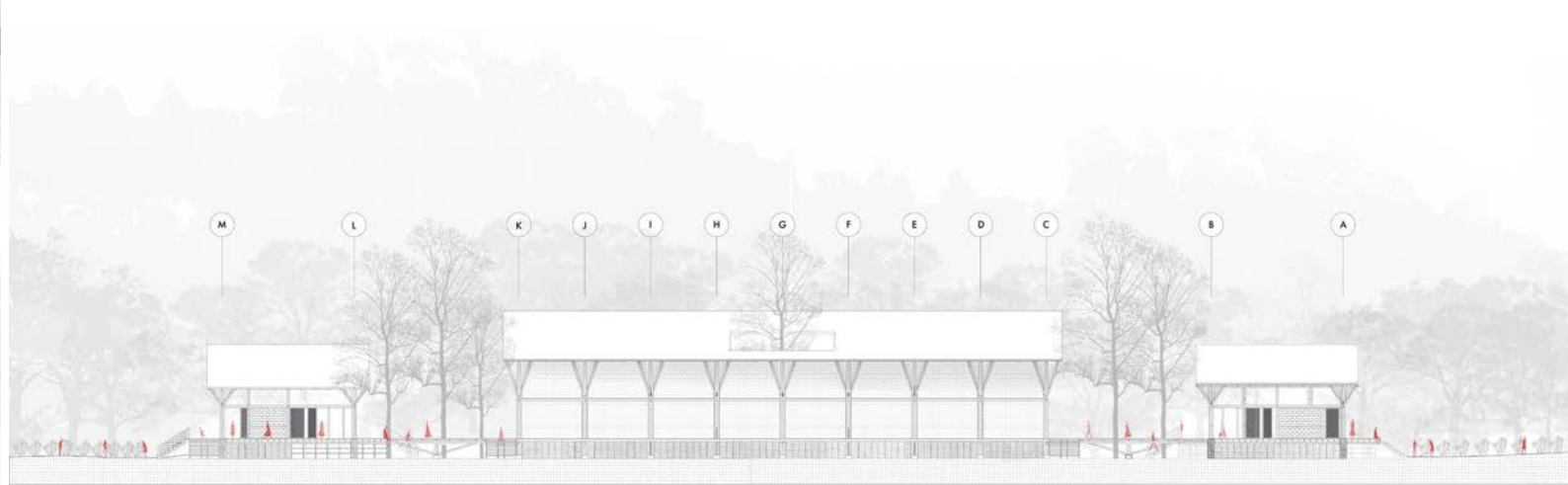
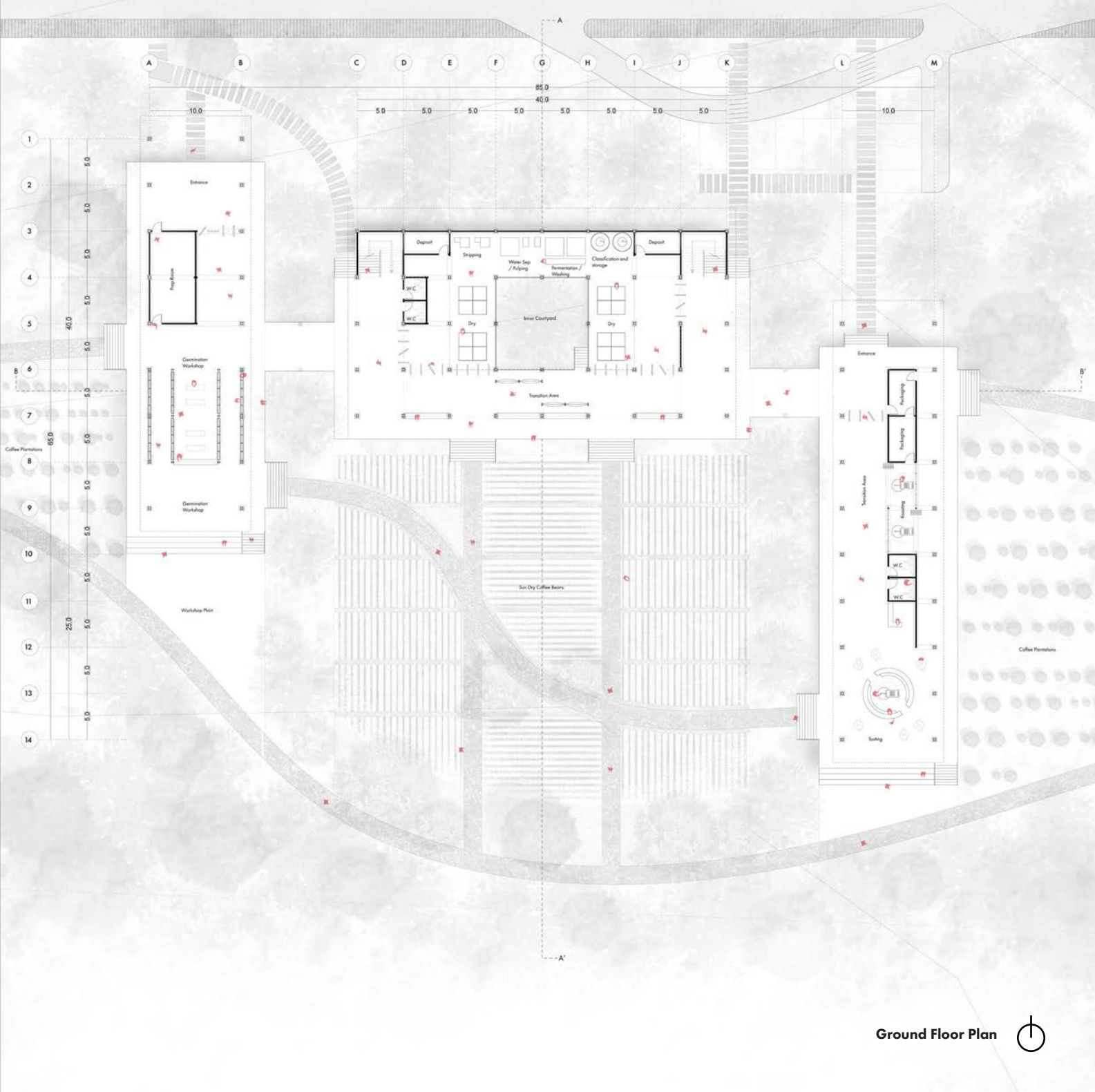


Academic Project
Thesis MSc in Architecture and Urban Planning
**Coffee Production Facility / Santa Cruz,
Galapagos Islands - EC**

Politecnico di Milano
Architecture Faculty
March 2024 - Oct 2024

Collaborative Project Ft. Arch. Daniela Alcocer

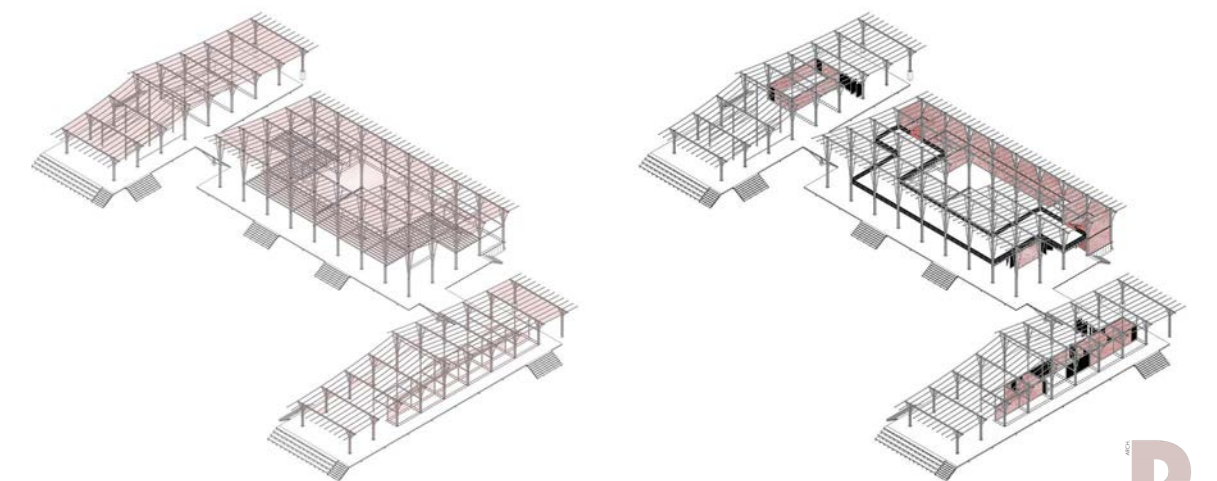




1. Foundation
Gabion foundation (0.50 x 0.50 x 1.50 m) where brick wall will be settled and modulated positioned of concrete blocks (0.50 x 0.50 x 0.30 m) for bamboo GAK structure.

2. Flooring Structure
Cedro wood purlins (0.05 x 0.15m) and double bamboo GAK beams (0.10m D) interconnected each other by bolts on its unions. Structure elevated 1.50m from ground.

3. Flooring Layout
Wood tiles across the external circulation of the proposal and polished concrete for the areas of service surrounded by gabion foundation.



4. Bamboo GAK Structure
Modulated structure every 5m of 4 Bamboo GAK (0.10m) pillars interconnected diagonally to one another and curved bamboo bolted to vertical structure for roofing.

5. Internal Walls Doors and Vertical Circulation
0.15m brick walls, bamboo folding and rotating walls and cedro wood staircases

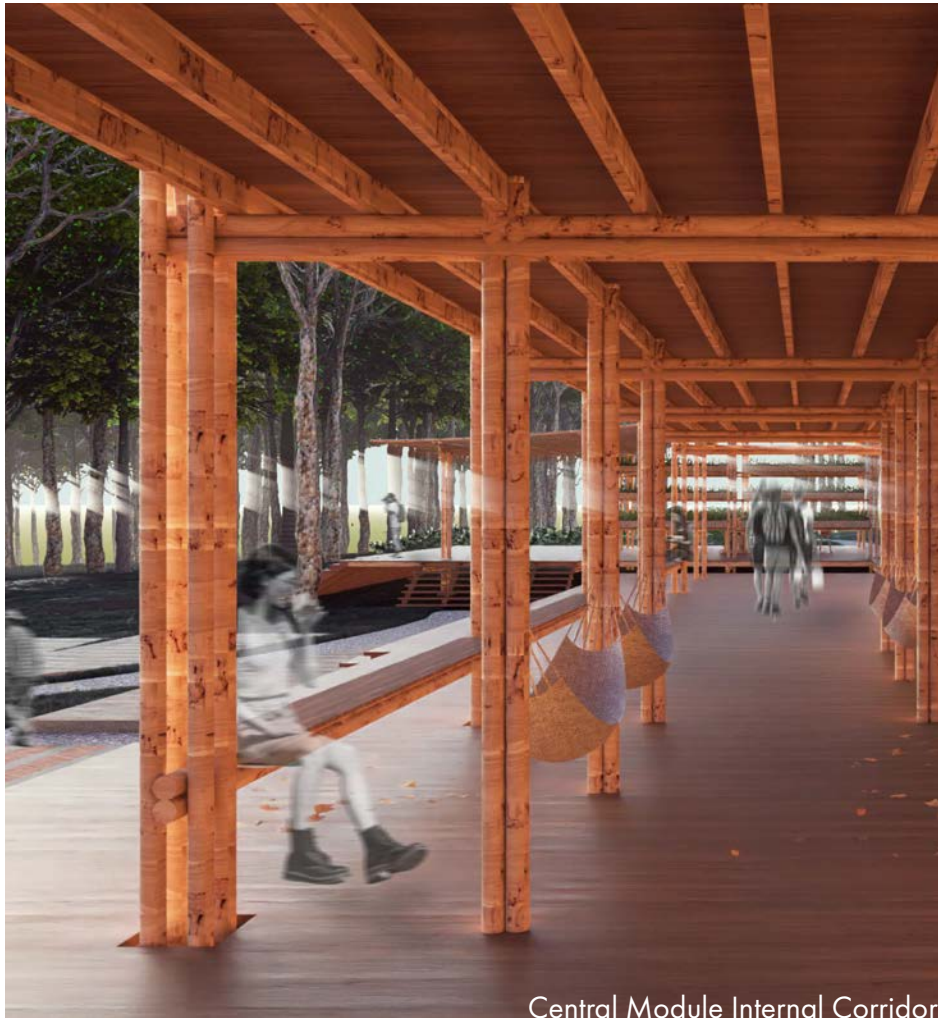
Academic Project
Thesis MSc in Architecture and Urban Planning
**Coffee Production Facility / Santa Cruz,
Galapagos Islands - EC**

Politecnico di Milano
Architecture Faculty
March 2024 - Oct 2024

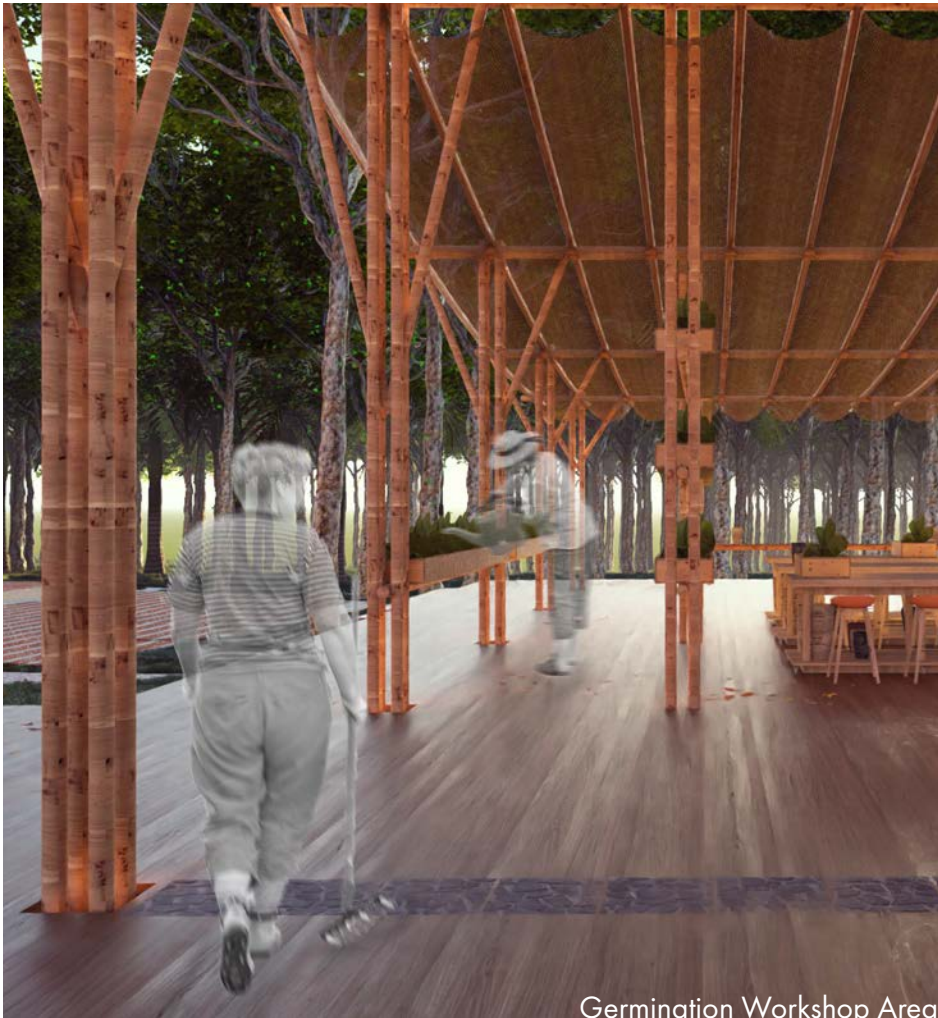
Collaborative Project Ft. Arch. Daniela Alcocer



2nd Floor Landscape View



Central Module Internal Corridor



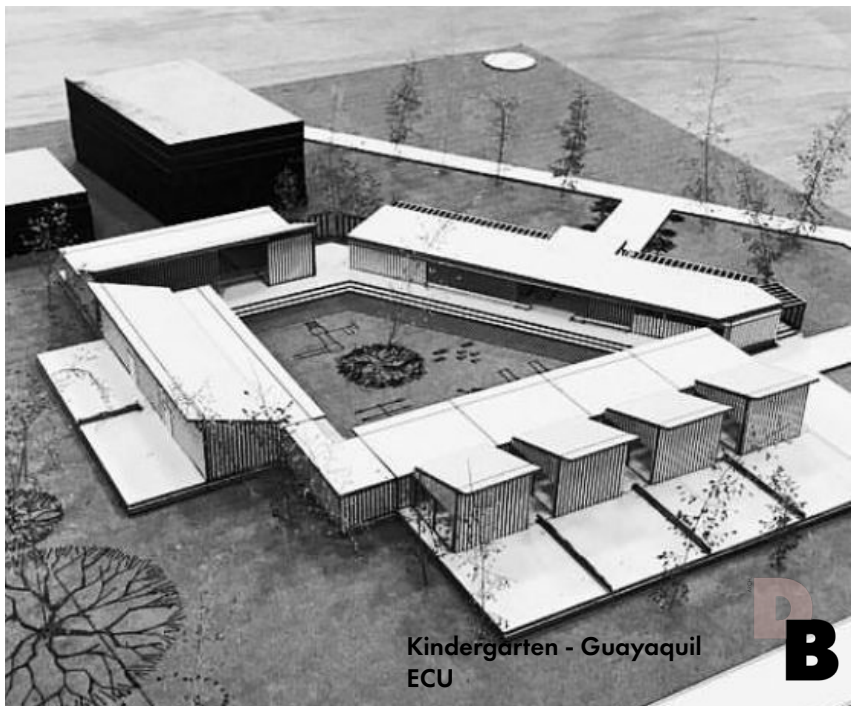
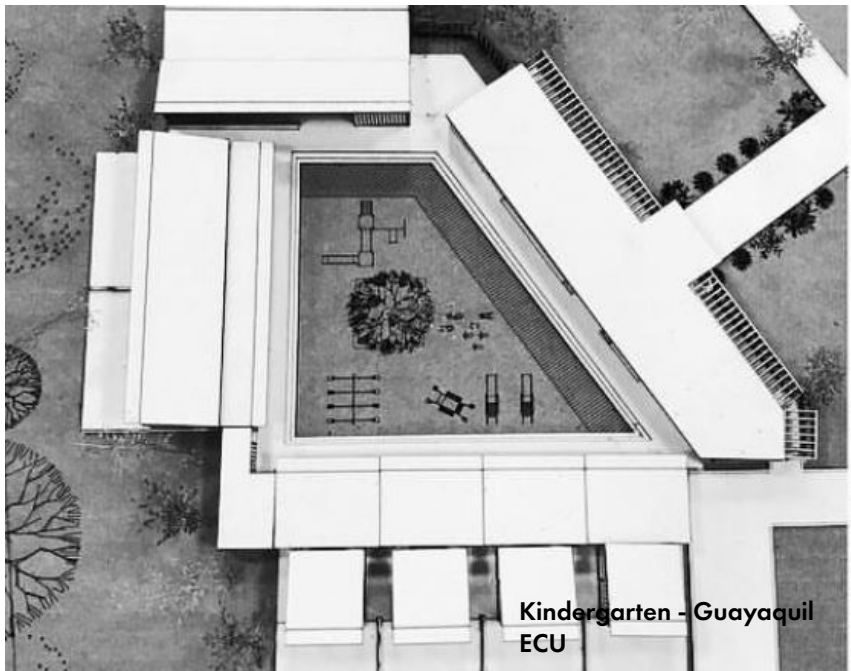
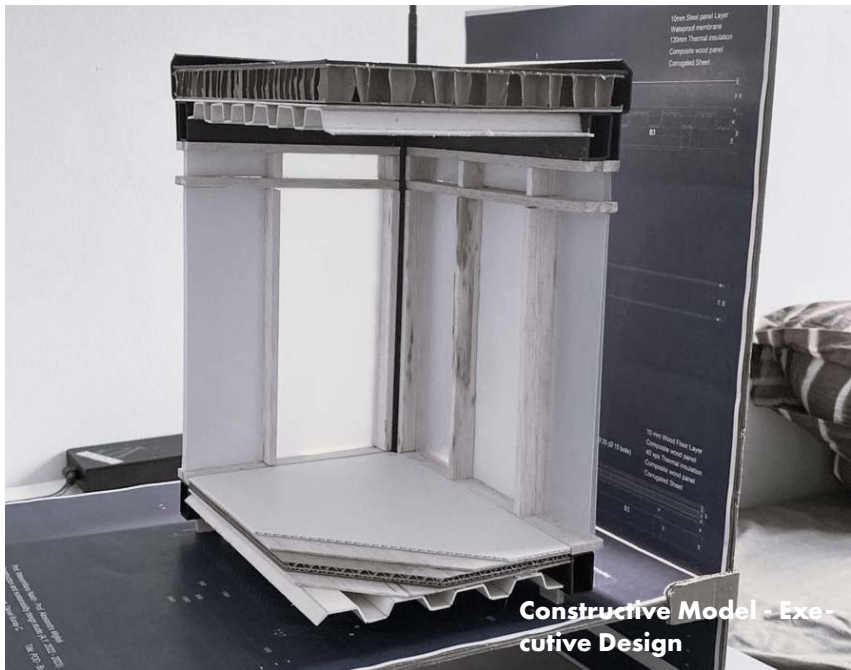
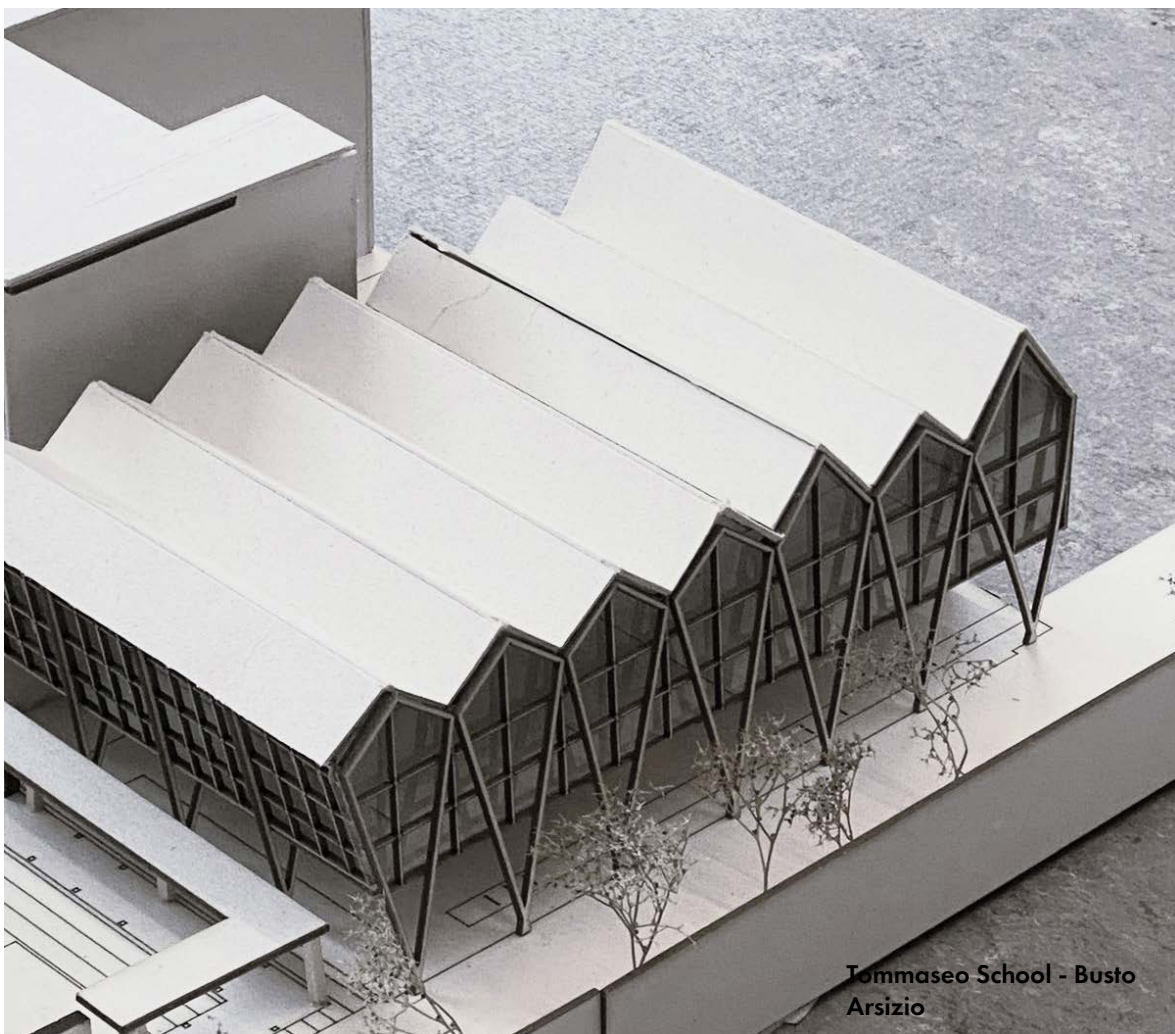
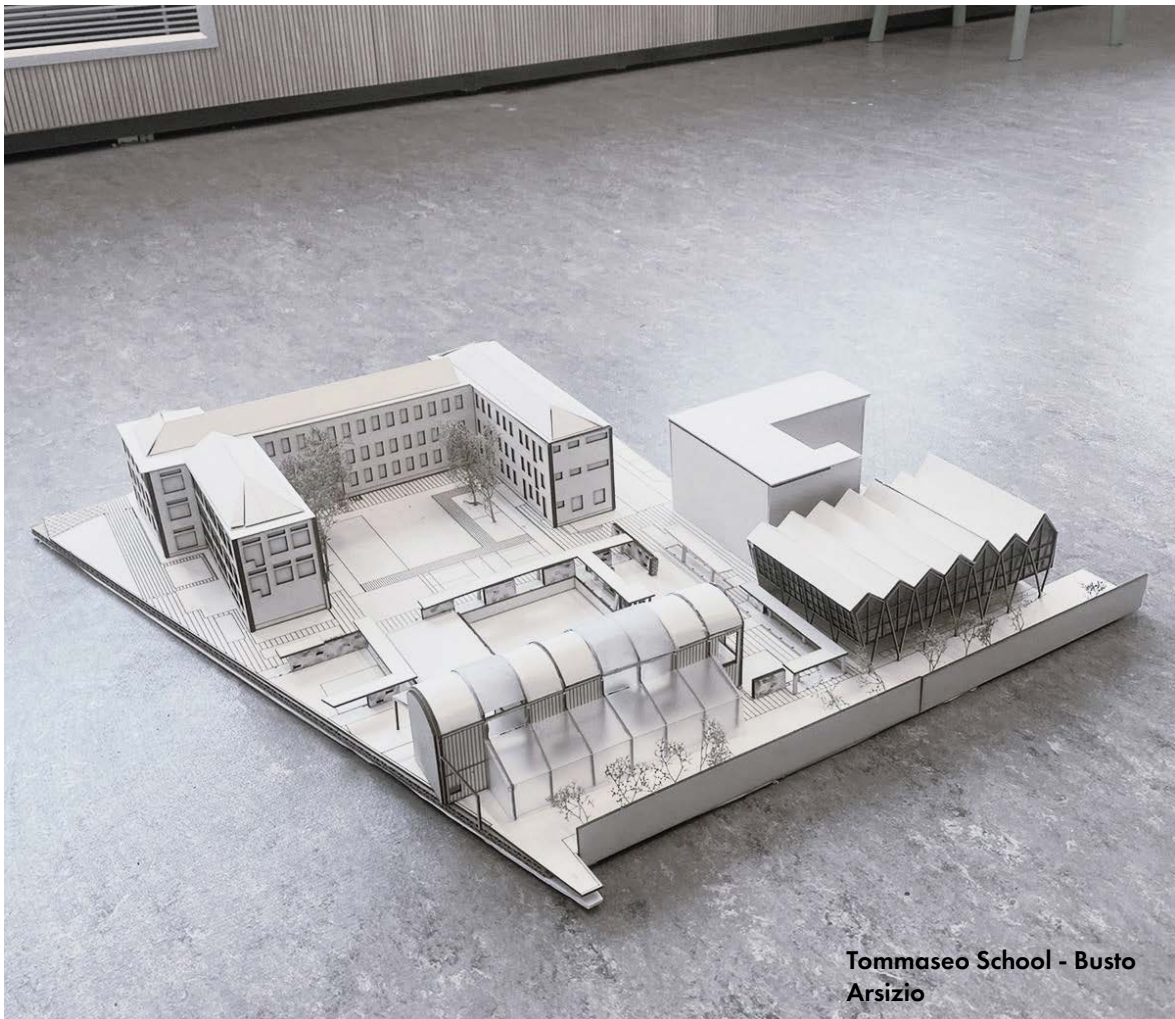
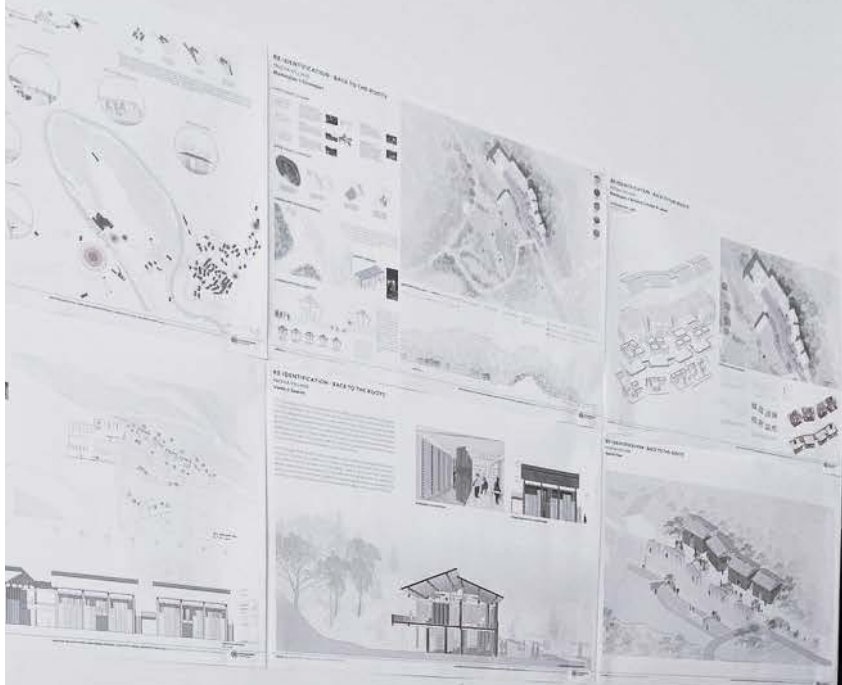
Germination Workshop Area

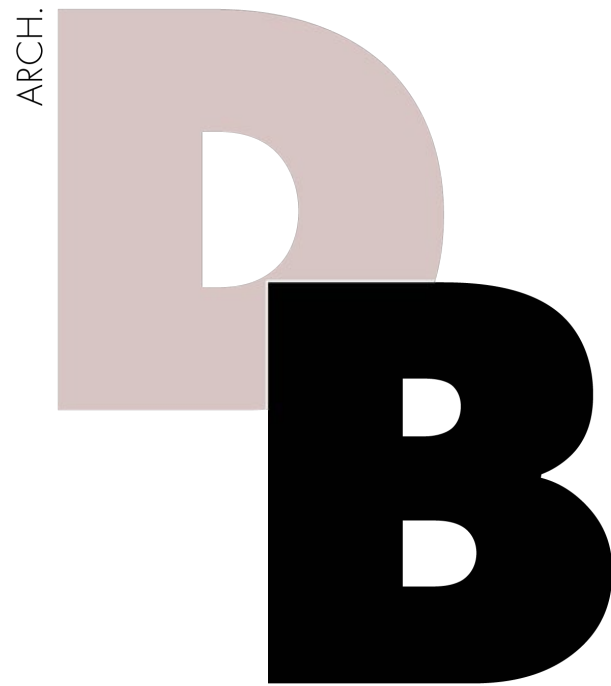


Coffee Tasting Area

Academic Projects
Work Models

Design Studios





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