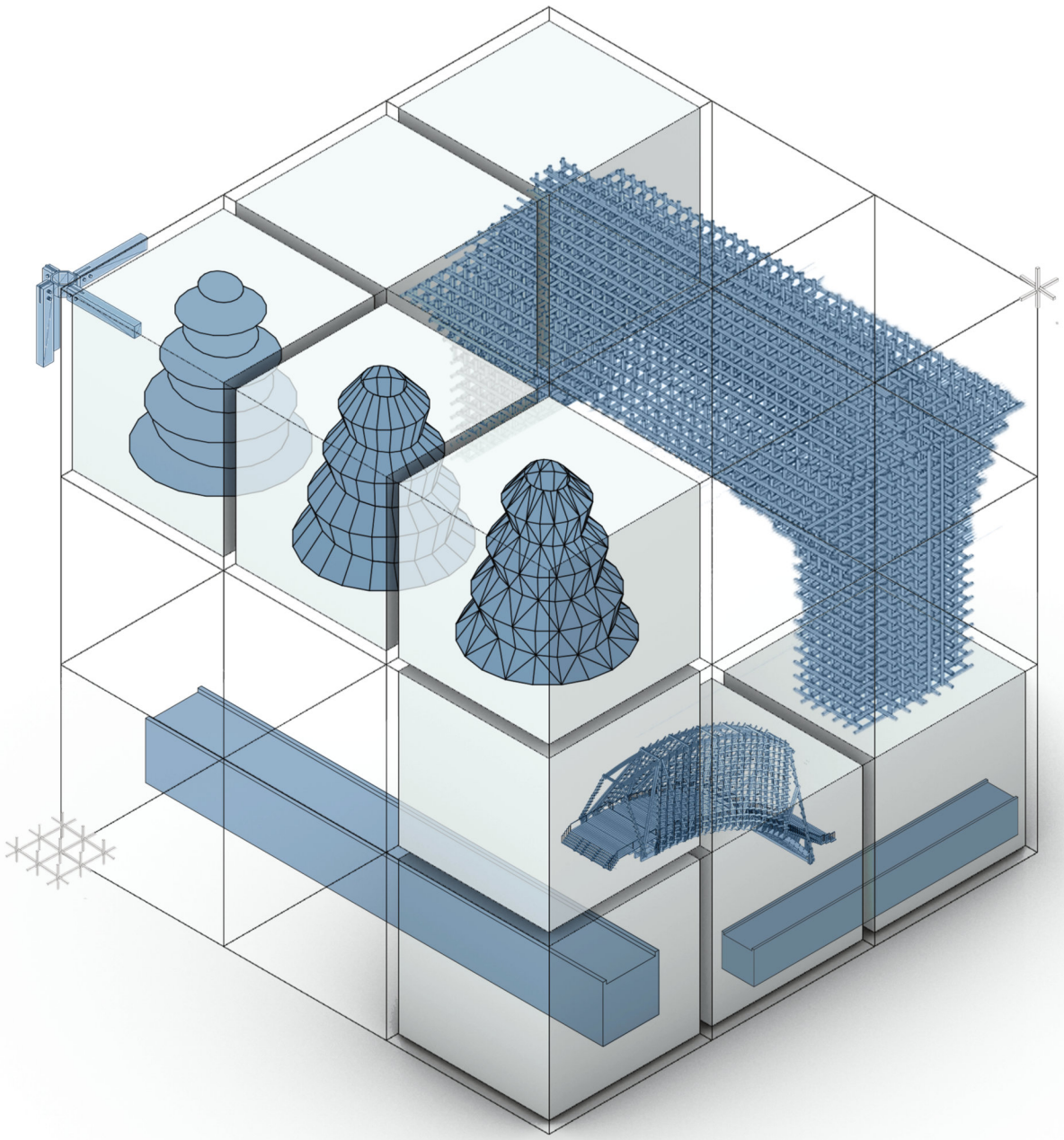
PORTFOLIO

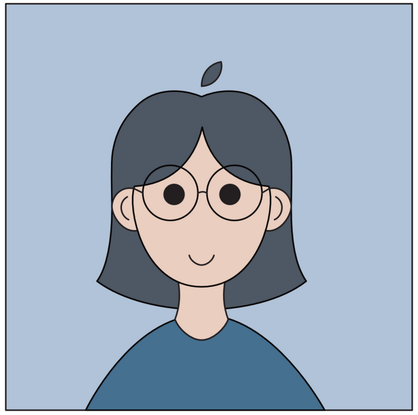
selin agirbas

2025



Selin Ağırbaş

08/03/2000



San Salvario, Turin / Italy

+39 344 6757360

selin.agirbas@studenti.polito.it

my online portfolio: selinagirbas.com

Education

Politecnico di Torino - Torino, Italy (2022-2025)
MSc. Architecture Construction City

Özyeğin University - Istanbul, TURKEY (2018-2022)
Faculty of Architecture and Design
Department of Architecture
Minor: Department of Communication Design
Honors: 25% Performance Scholarship
Cumulative GPA: 3.23/4.00

TED Ankara College Foundation High School
- Ankara, TURKEY (2014-2018)
GPA: 87.77/100

Experience

De Leo & Drasnar Architects - Turin, ITALY (02/2024-04/2024)
Position: Architecture Intern
Architecture

Le Cordon Bleu Istanbul - Istanbul, TURKEY (03/2021-07/2022)
Position: Sales and Marketing Assistant
Marketing

Piksel. - Istanbul, TURKEY (04/2021-08/2021)
Position: Designer
Graphic Design

Marqala Creative - Istanbul, TURKEY (09/2020-11/2020)
Position: Intern, Freelance Designer
Branding

ZOOM/TPU - Istanbul, TURKEY (06/2020-08/2020)
Position: Intern, Office
Architecture

Özyeğin University - Istanbul, TURKEY (07/2019-07/2019)
Position: Intern, Research
Parametric Design

Extracurricular Activities

2018-2022 **OzU Maker Club**
Designer

2018-2022 **OzU Photography Club**
Active Member

2018-2019 **yalnizdergi.com**
Art Director

2017-2018 **Yalnız Dergi**
Editorial Designer

2015-2018 **YGA**
Volunteer

2016-2017 **TED Musical Club**
Dancer, Graphic Designer

2016-2017 **The 7th Annual International Young Critics' Symposium**
Organizator

2017 **LOGOS Physics, Chemistry and Biology Magazine**
Editorial designer, Writer

2012-2015 **Fire of Anatolia**
Dancer

Conferance

6th FabLearn Europe / MakeEd Conference 2022

Publication

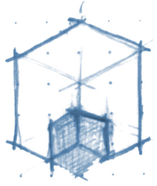
Selin Ağırbaş, Aslı Seher Kızıltan, Çağla Irmak Badem, and Gökçe Elif Baykal. 2018. Scaffolding Preschool Children's Upcycling Experiences through Free vs. Guided Play Activities. In Woodstock '18: ACM Symposium on Neural Gaze Detection, June 03-05, 2018, Woodstock, NY . ACM, New York, NY, USA, 7 pages.

Computational Skills

AutoCAD
Rhino
Grasshopper
D5 Render
Affinity Publisher
Adobe Photoshop
Adobe Illustrator
Archicad
Lumion
Twinmotion
SketchUp
Revit

Contents

Architecture



01

Architecture and Structural Forms

MSc. Architecture and Urban Design

02

The Light Within

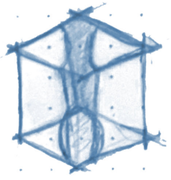
Architectural Competition / Reuse Italy- Reuse the Abbey

03

Architecture and Structural Restoration

MSc. Architecture and Restoration

Parametric Design



04

Faculty of Architecture and Design

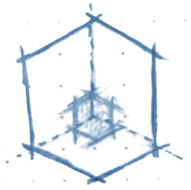
Bsc. Architectural Design Studio 7

05

Algorithm Aided Architectural Geometry

MSc. Algorithm Aided Shelter Design

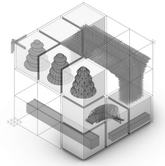
Experience



06

Parametric Interior Architecture

MSc. Architecture Internship



01

ARCHITECTURE AND STRUCTURAL FORMS

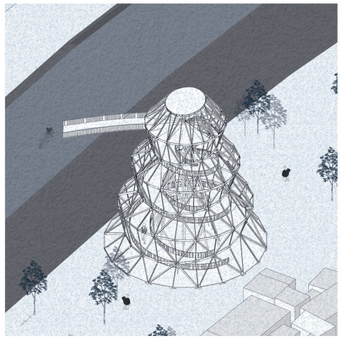
MSc. Architecture and Urban Design
Nanjing City Wall / China
2022-2023

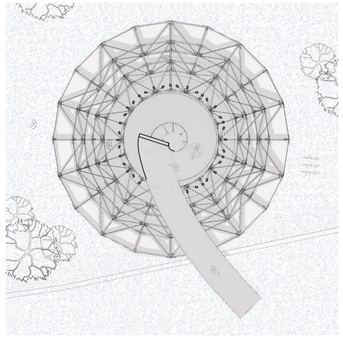
The Nanjing City Wall holds historical value but lacks emphasis in its current state. This proposal aims to revive its significance through storytelling.

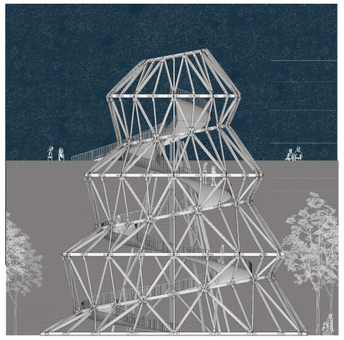
The Tower reflects siege tower construction with decreasing slab sizes and angled shifts. A continuous ramp connects all levels, guiding visitors to the top for an immersive city experience. The transparent truss structure ensures uninterrupted views.

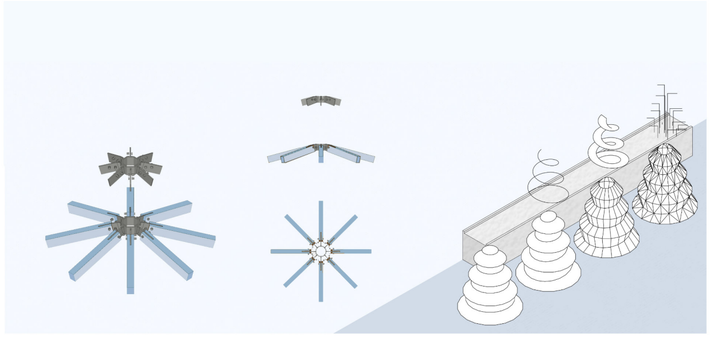
The Flying Buttress reintroduces Nanjing's historic skyline through trapezoidal elements that connect the ground to the wall while maintaining open walking space below. An interlocking joinery system binds the wooden components.

The Belvedere restores the wall's identity by linking culture, people, and place, creating a new landmark that unites both sides of the city.

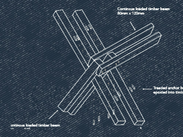


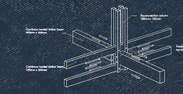


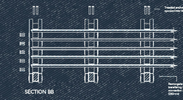


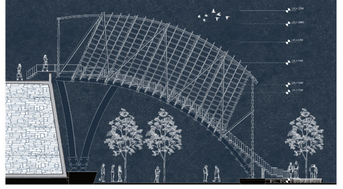


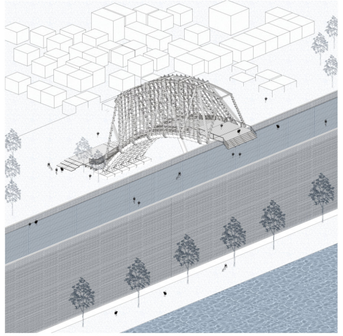
The Flyingbuttress

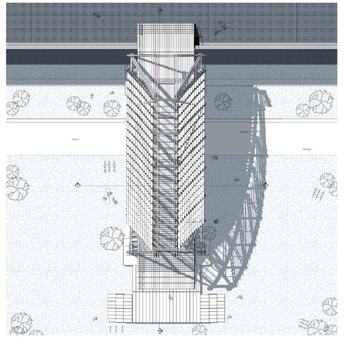


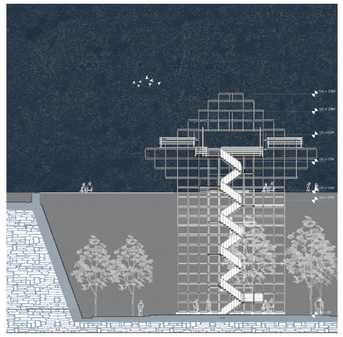


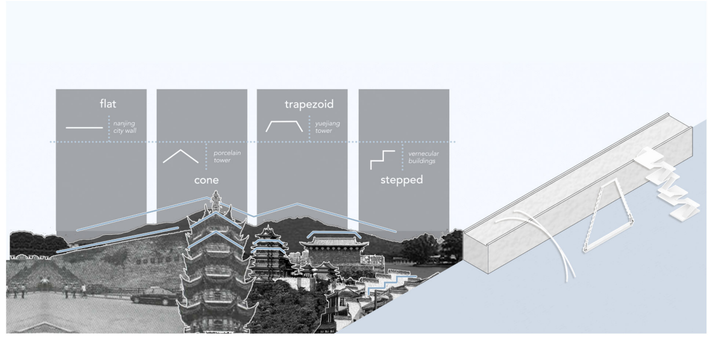




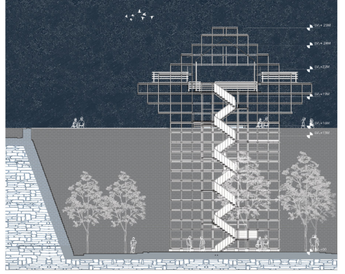


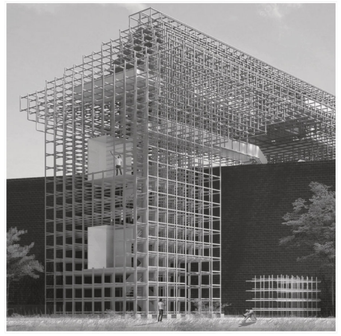


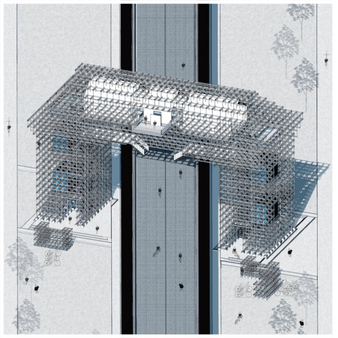


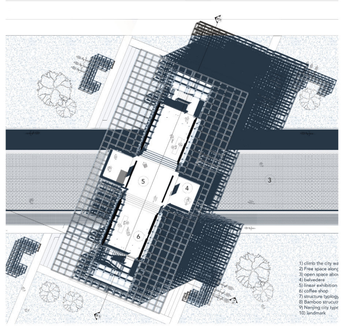


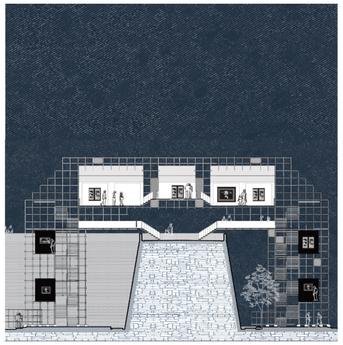
The Belvedere

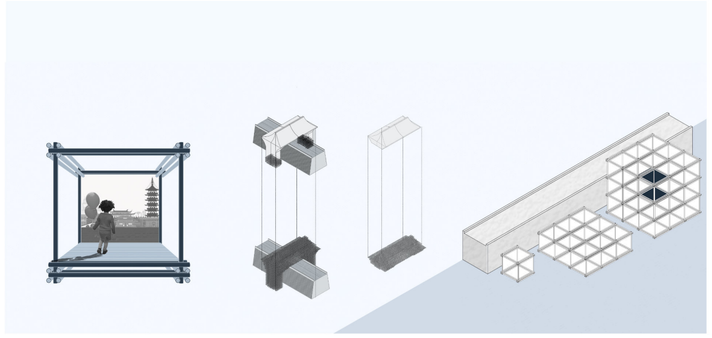












02

THE LIGHT WITHIN

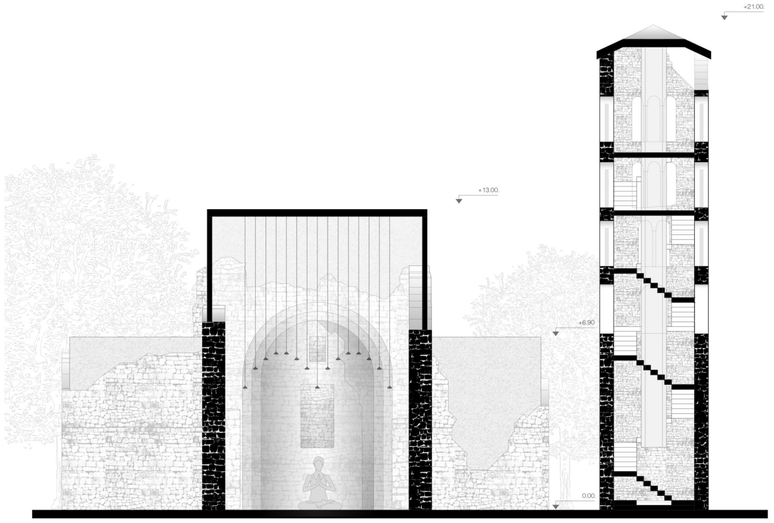
Architectural Competition / Reuse Italy / Reuse the Abbey
Abbey of Santa Maria del Piano, Pozzaglia Sabina / Italy
2025

Rooted in Sabina, the 11th-century Santa Maria del Piano Monastery embodies rich cultural heritage. This proposal revives the abandoned site, bridging past and present to inspire personal discovery.

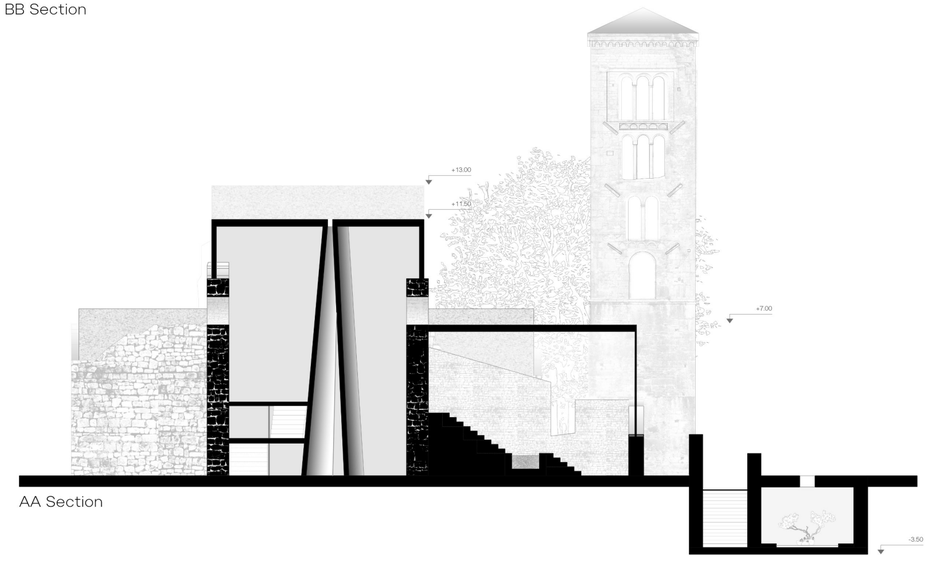
Visitors enter through a narrow corridor, symbolizing a journey from darkness to light, leading to the main meditation space. Here, a recreated cross-vault blends historical homage with modernity. The bell tower transforms into a meditation tower, where ascending its staircase mirrors the process of meditation. Landings align with windows, offering reflective glimpses, while a central lightbox illuminates the pool below, enhancing inner clarity.

Above ground, movement represents transcendence; below, the Zen garden fosters unity with nature. Restored elements use white concrete atop original stone, preserving the monastery's essence. This revitalized sanctuary merges history, nature, and self-exploration, offering a timeless retreat of harmony and renewal.

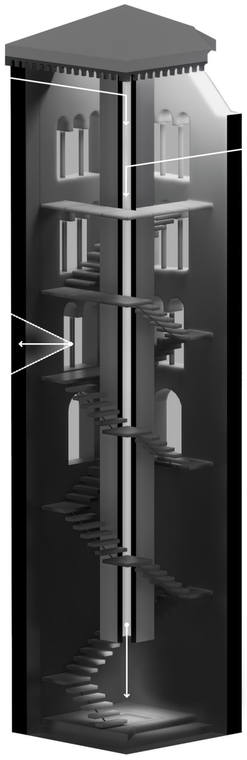
Meditation Room and the Reimagined Cross-Vault



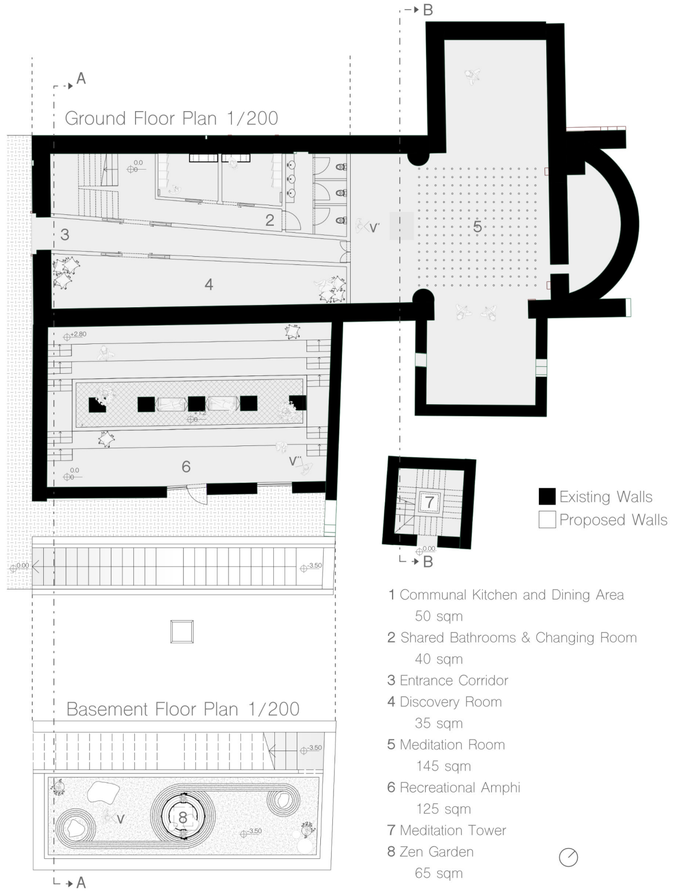
BB Section



AA Section

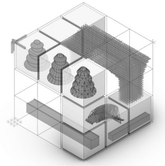


Bell Tower "Journey" Diagram



1 Communal Kitchen and Dining Area
50 sqm
2 Shared Bathrooms & Changing Room
40 sqm
3 Entrance Corridor
4 Discovery Room
35 sqm
5 Meditation Room
145 sqm
6 Recreational Amphi
125 sqm
7 Meditation Tower
8 Zen Garden
65 sqm

Zen Garden



03

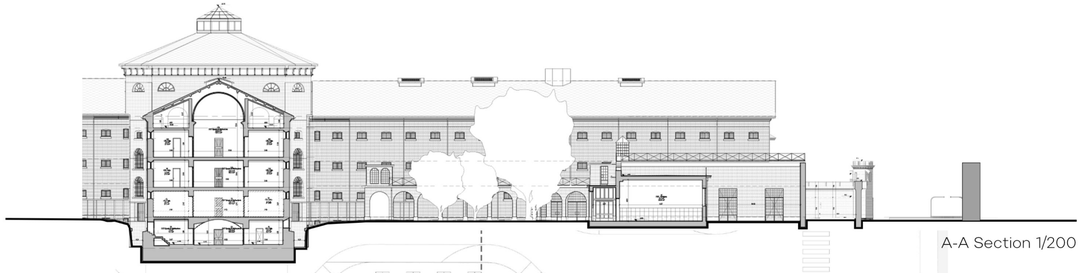
ARCHITECTURE AND RESTORATION

MSc. Architecture and Restoration
Museo Le Nuove / Torino
2023-2024

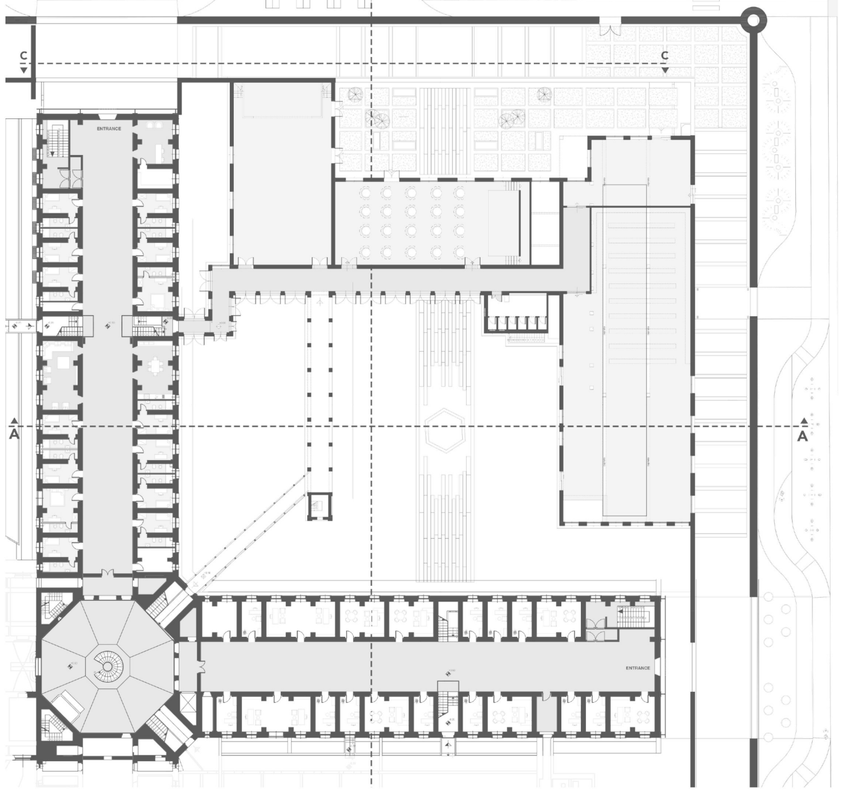
This design presents a conservation and adaptive reuse project, which integrates restoration principles with architectural and urban composition strategies. The project aims to cultivate a deep understanding of built heritage values while fostering sustainable and contextually aware interventions in existing structures.

Our proposal reimagines Le Nuove Museum in Torino as a multifunctional complex, incorporating a co-working space and dormitory located in a public and multifunctional masterplan. The design addresses urban safety concerns through a strategic façade illumination, enhancing nighttime visibility in critical areas. Decay analysis and detail drawings supplement the proposal, ensuring a comprehensive approach to conservation and adaptive reuse.

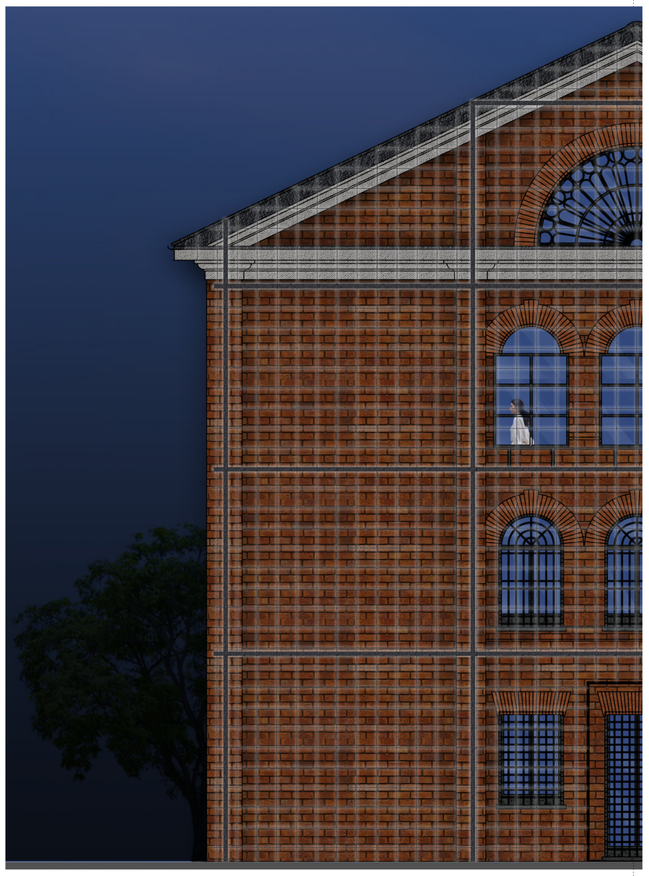
Axonometric Masterplan

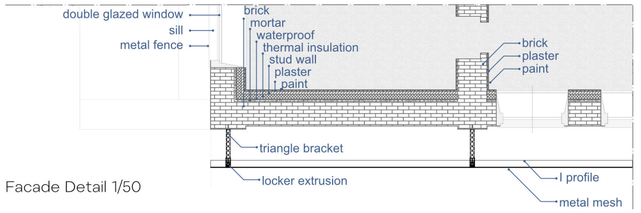


A-A Section 1/200

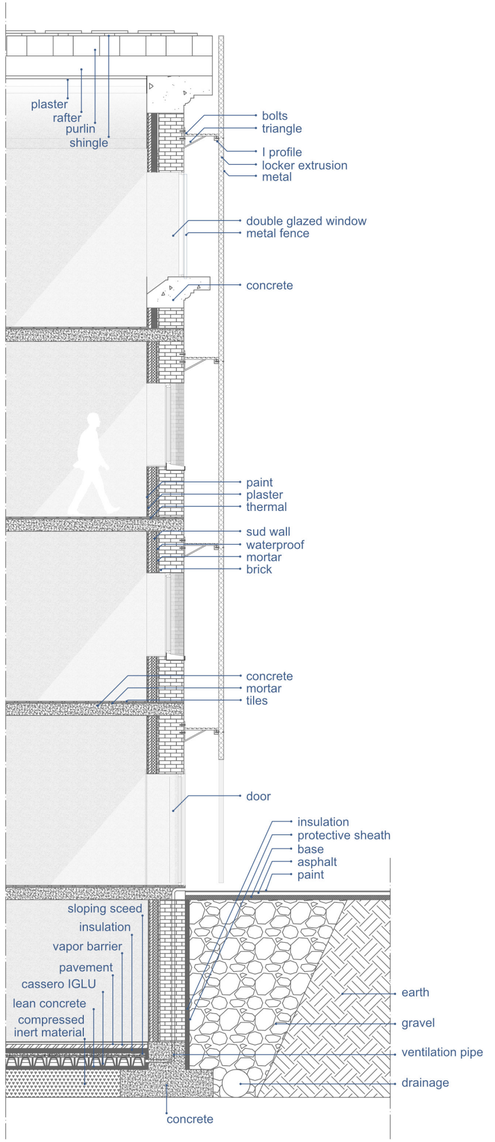


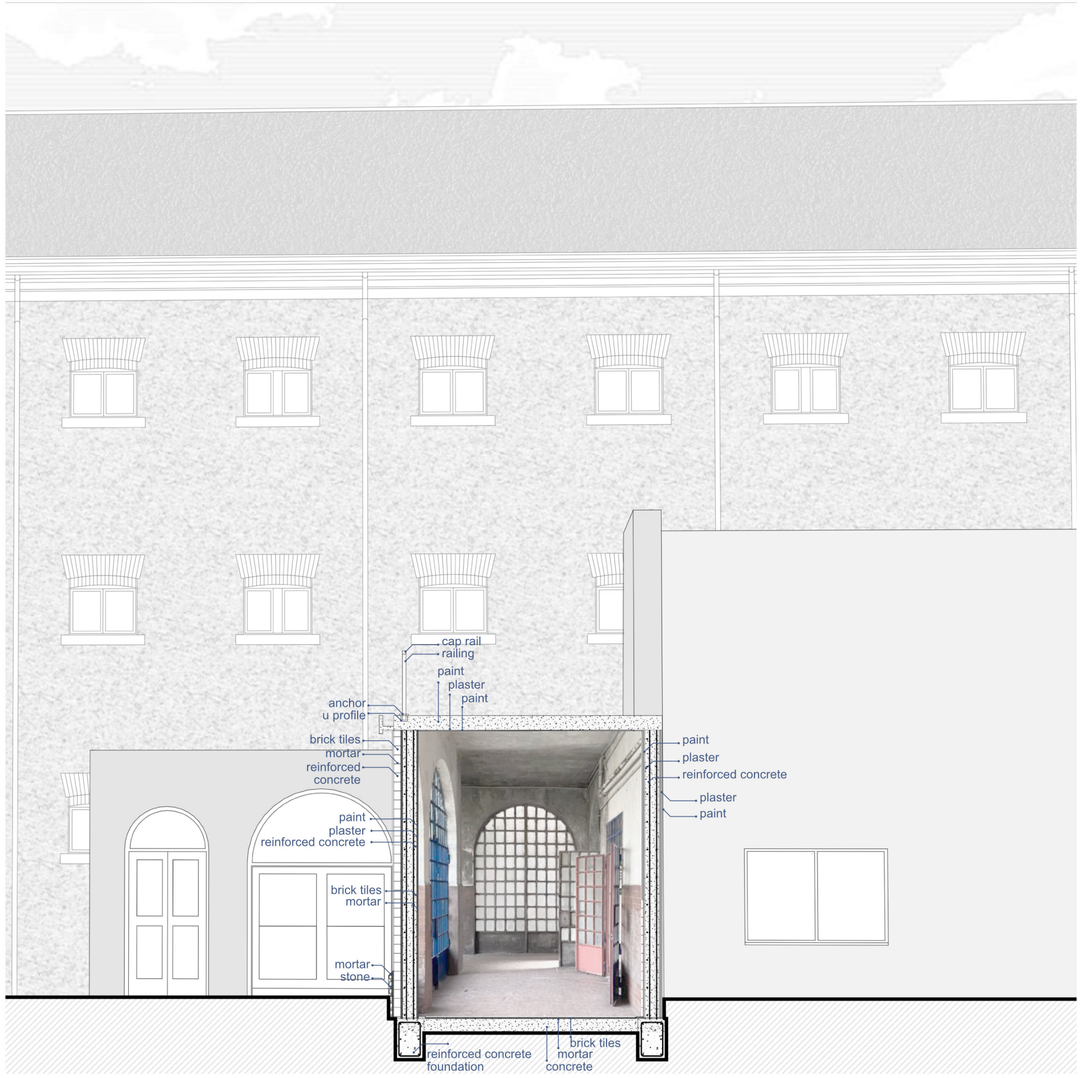
Ground Floor Plan 1/200





Facade Detail 1/50





Passage Perspective Section

Della Costa Methodology Legend

1- structure
2- material
3- superficial treatment
4- color
5- photo

Structure
Sc- roofing structure
Sv- vertical structure
Sh- horizontal structure
Inc- window frame
Ini- door frame

Material
Br- handmade brick
Fe- iron
Me- metal
Gl- glass
Pl- plastic
Cn- Concrete

Superficial Treatment
1- natural
2- coated

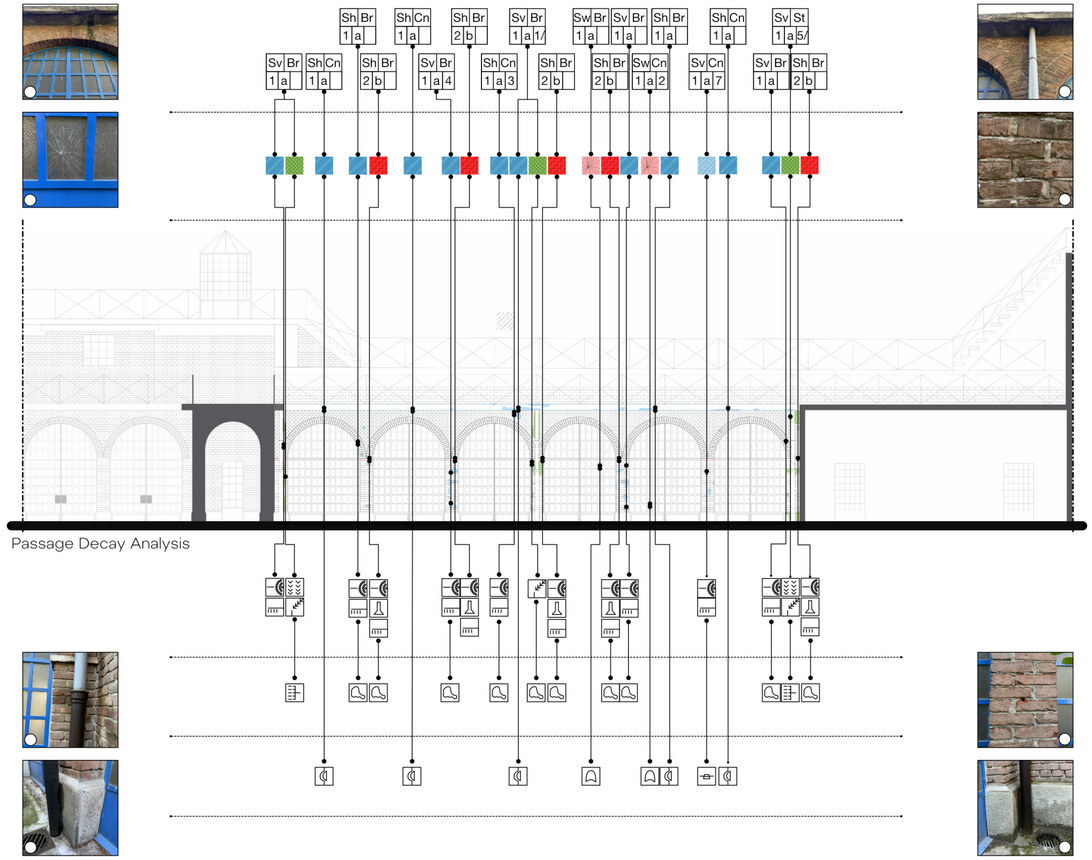
Color
a- natural
b- painted

Reintegration
non-structural bonding
replacement
filling with mortar

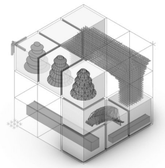
Protection
application of protective product
application of paint

Cleaning
cleaning with brush
application of biocides
elimination of weeds
water spraying
chemical cleaning

Decay Analaysis
detachment
biological colonization
colorization
crack
mechanical damage



Passage Decay Analysis



04

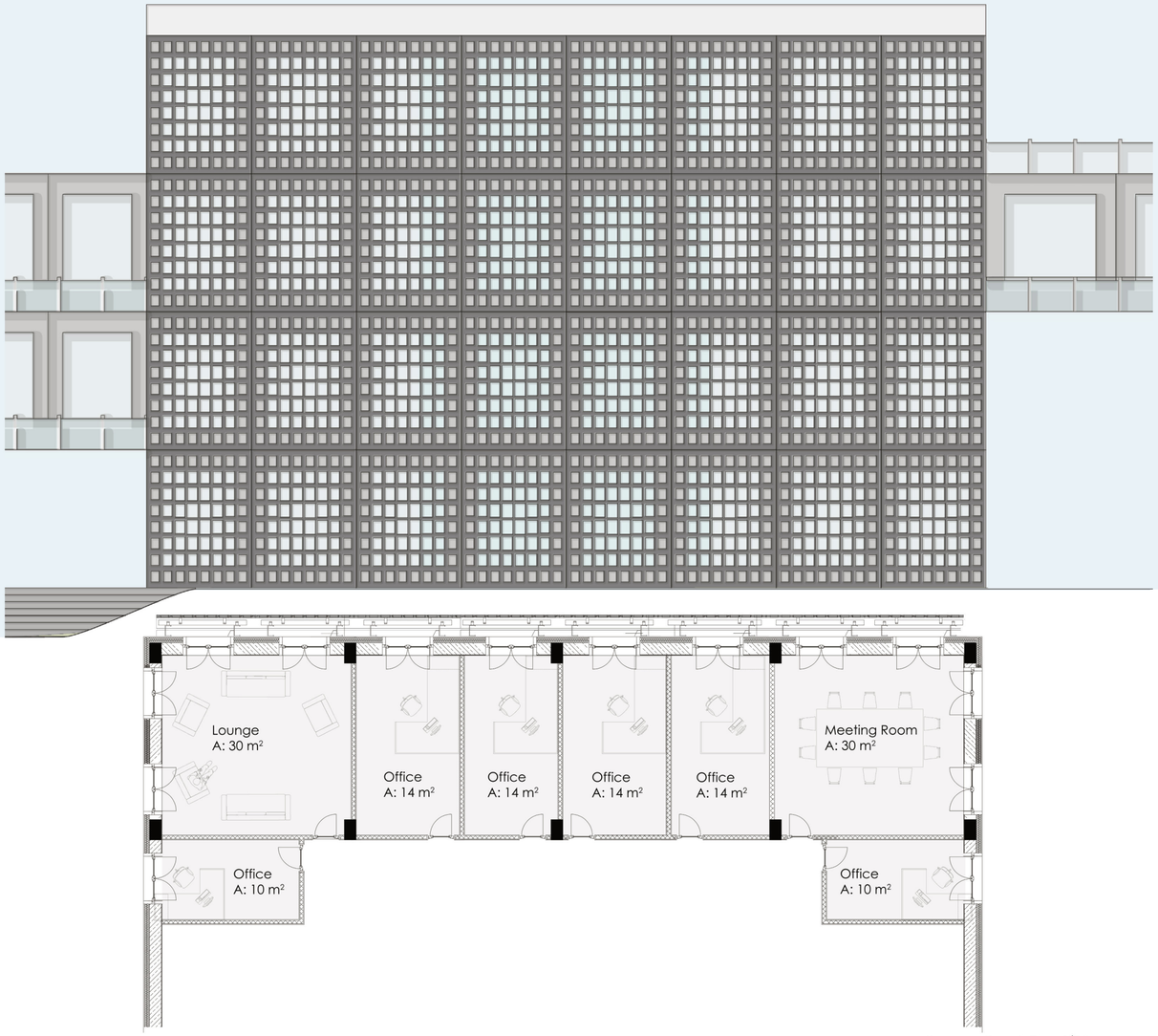
GALATA WATERFRONT

Bsc. Architectural Design Studio 7
Galata, Beyoğlu / Istanbul
2021-2022

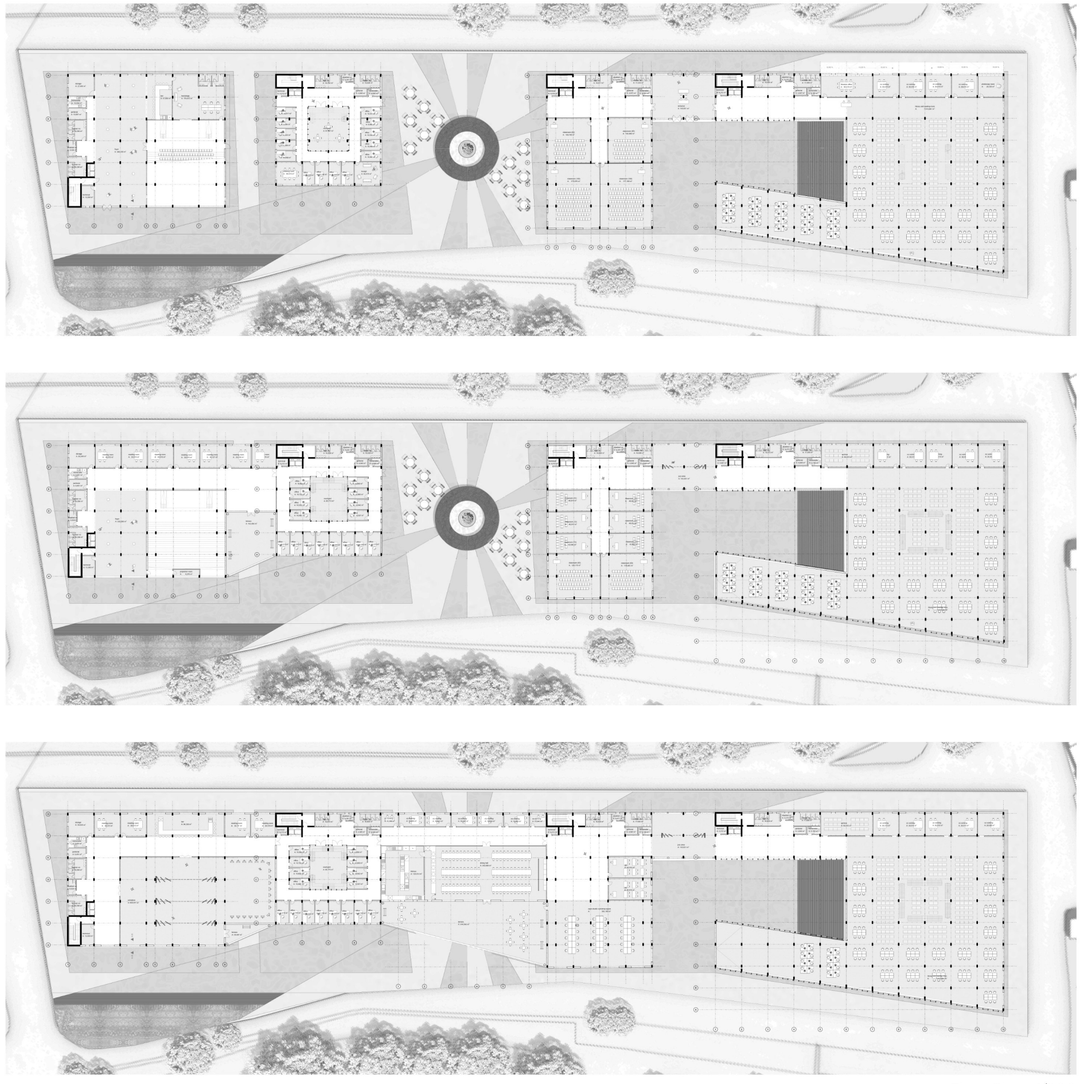
The Faculty of Architecture and Design on Galata Waterfront reimagines one of Istanbul's most historic yet evolving districts, integrating seamlessly with the urban fabric. The design respects the site's layered history while fostering public engagement and sustainability.

Situated between Galata and Unkapanı Bridges, the project reconnects the city, waterfront, and people through strategic spatial interventions. Housing 800 students, 50 staff, and 200,000 books within 9,600 sqm, it ensures a dynamic learning environment. The gridal urban texture of Beyoğlu's Arapcamii neighborhood is incorporated to maintain contextual harmony.

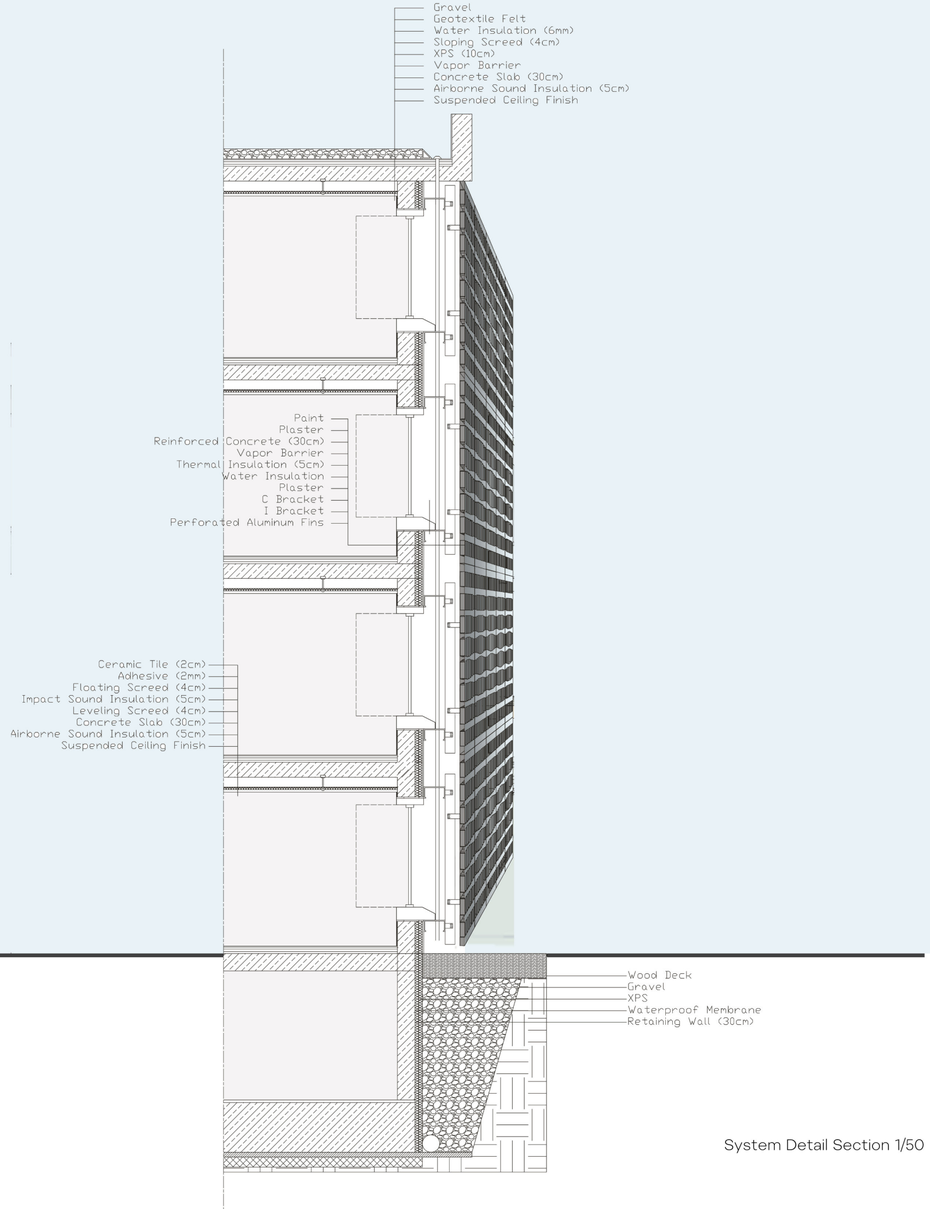
A parametric mesh, generated via Grasshopper, optimizes window openings—maximizing seaside views while controlling sunlight. This project balances historical continuity with innovation, redefining Galata's waterfront as a vibrant, inclusive, and sustainable architectural hub.



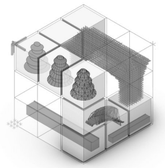
System Detail Plan 1/50



Floor Plans 1/200



System Detail Section 1/50



05

ALGORITHM AIDED ARCHITECTURAL GEOMETRY

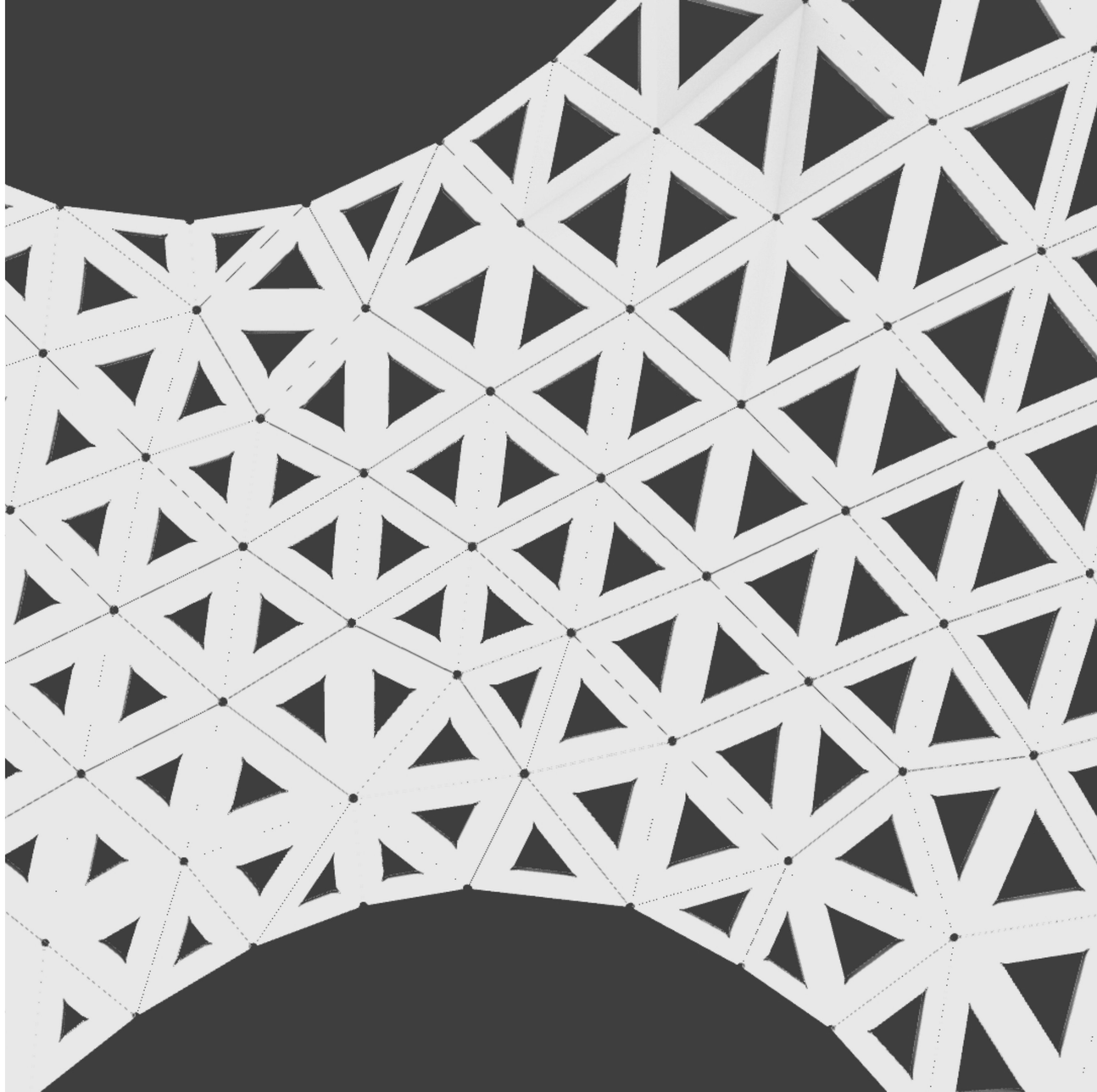
BSc. Algorithm Aided Shelter Design
Taksim Square / Türkiye
2020-2021

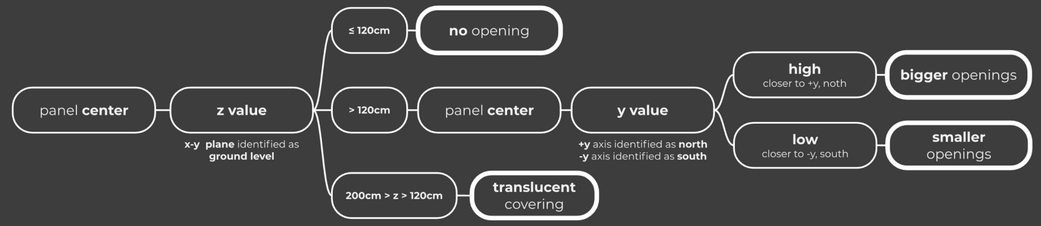
The aim for this project is to design a pavilion model that regulates wind and solar income parameters at any given location in order to form a controlled shelter for a comfortable experience.

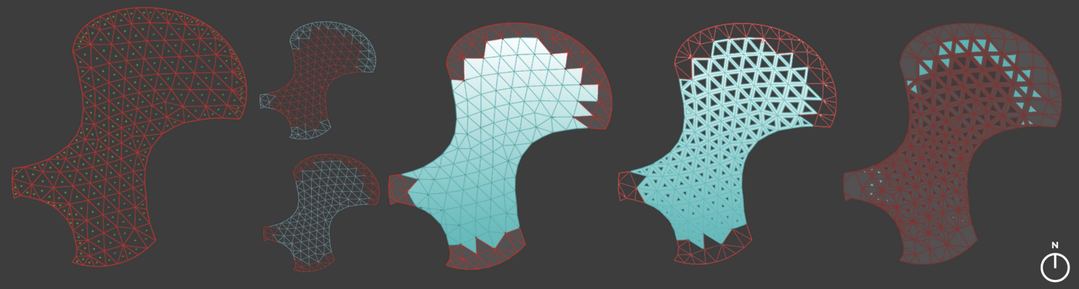
As an intersection point of dense circulation routes, Taksim Square lacks semi-open sheltered areas for the public. This was taken as a design opportunity to provide a shelter to function as a meeting point and passage that can also inhabit small scale street performances.

The main issue is to create a pavilion located on an unprotected square that regulates the wind effect and solar income to provide a comfortable shelter. The horizontal projection of the pavilion will be designed according to analysis that takes the wind parameters as an input and the openings on the shell will take the solar parameters as an input so that a pavillion can be generated for any place using the same principles.

Basic structural openings were decided according to the circulation mainly shaped by the subway station, bus stop and taksim square intersection.




panel center
z value
x-y plane identified as ground level
≤ 120cm
no opening
> 120cm
panel center
y value
+y axis identified as north
-y axis identified as south
high
closer to +y, noth
bigger openings
low
closer to -y, south
smaller openings
200cm > z > 120cm
translucent covering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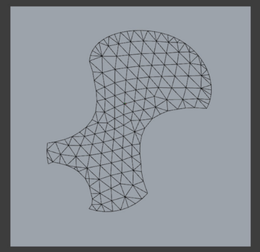

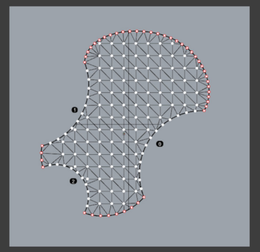

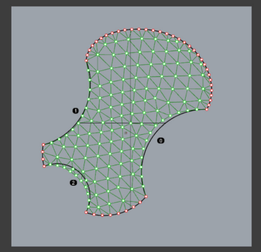

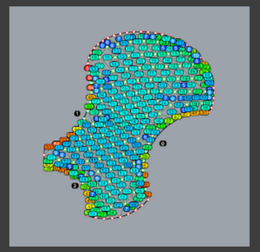

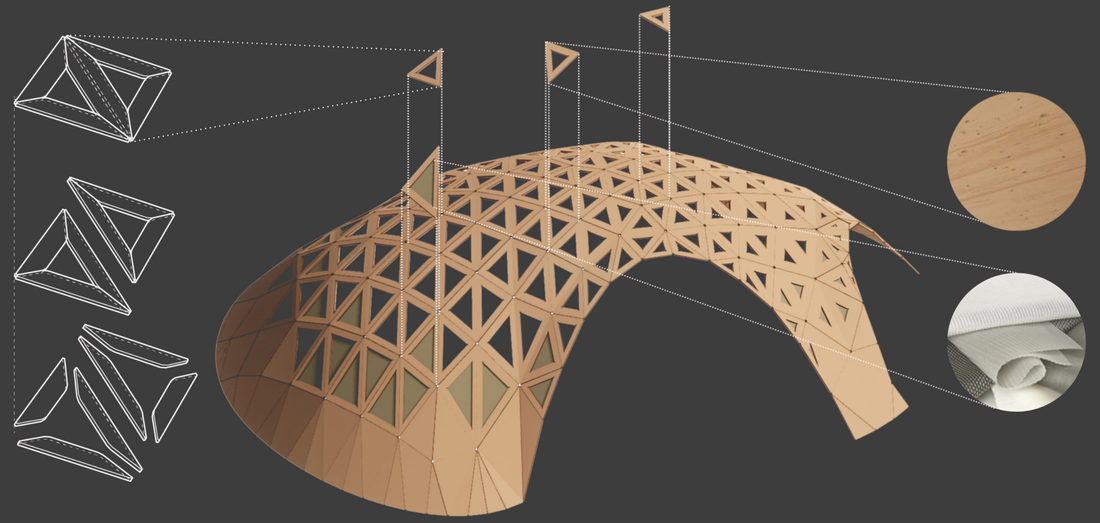

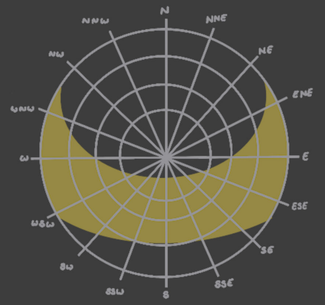
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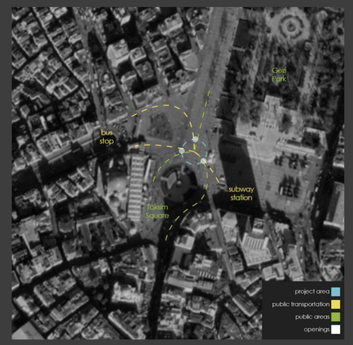
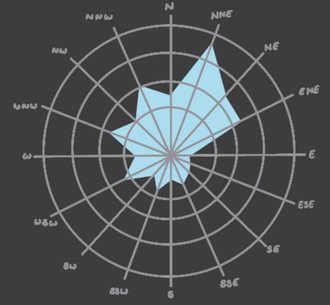

bus stop
subway station
project area
public transportation
public areas
openings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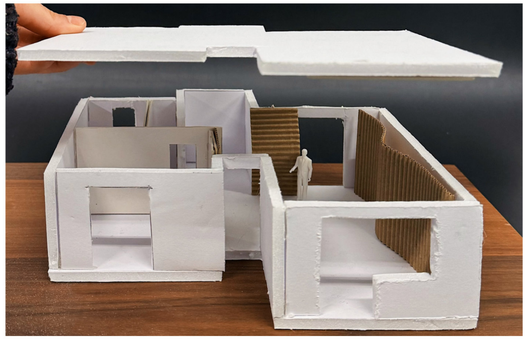
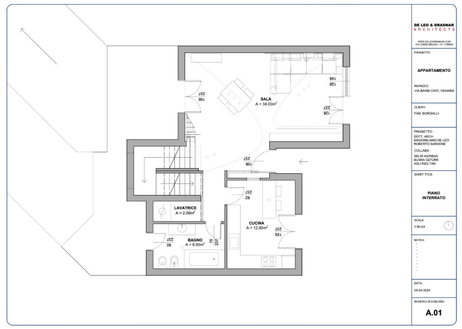
06

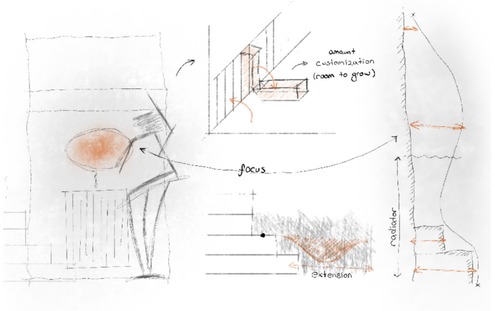
Parametric Interior Architecture

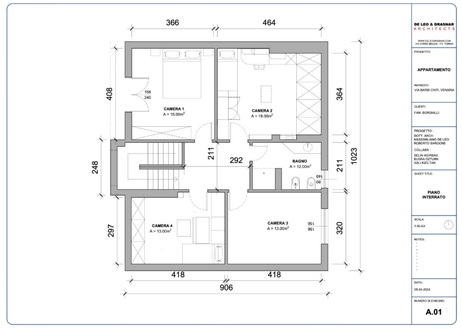
MSc. Architecture Internship
De Leo & Drasnar Architects / Torino, Italy
2024

During my internship at De Leo & Drasnar Architects, I worked on a villa project in Veneria, focusing on parametric design. My tasks included site visits for accurate measurements and photographic documentation using laser meters and 360-degree videos. I then translated these details into a 2D plan using AutoCAD, creating floor plans with structural elements. I also developed a 3D model in Rhino to visualize the design, managing layers for clarity. Based on client requirements, I designed custom elements like a parametric bookshelf to hide a radiator and a modular cube library for flexibility. I worked on the design of children's rooms, a multifunctional basement, and various storage solutions. Additionally, I produced high-quality renderings with D5 software and presented the design to the client, incorporating feedback. My internship also included exposure to AI in architecture and real-world construction, broadening my perspective on architectural innovation and project execution.




DE LEO & BRAGNAN
ARCHITECTS
APPARTAMENTO
SALA
LAVATRICE
BAGNO
CUCINA
PIANO INTERRATO
A.01


amount customization (room to grow)
focus
radiator
extension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292
211
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297
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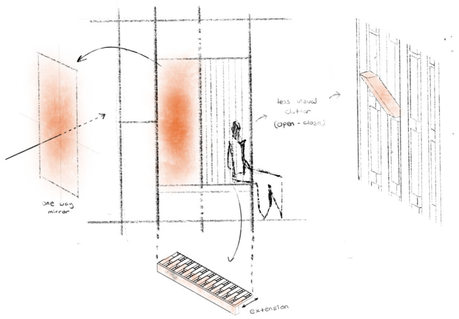
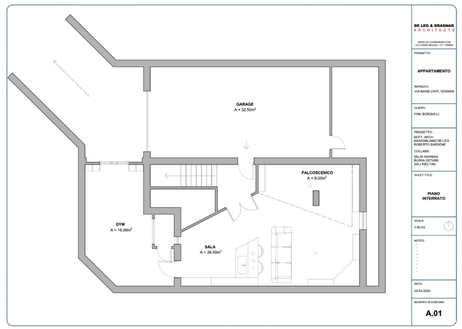
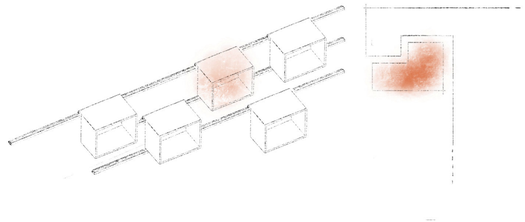
906
CAMERA 1
CAMERA 2
CAMERA 3
CAMERA 4
BAGNO
PIANO INTERRATO
A.01


less visual clutter (open - closed)
one way mirror
extension


DE LEO & BRAGNAN
ARCHITECTS
APPARTAMENTO
GARAGE
PALCOSCENICO
GYM
SALA
PIANO INTERRATO
A.01



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