

GIOVANNI A. SECCO

sample portfolio

as of June 2026

About Me



Master's graduate in Building Engineering and Architecture from Politecnico di Milano and Licensed Civil and Environmental Engineer.

Based between the Primiero Dolomites and Milan, my approach to design has been deeply shaped by international experiences, having had the opportunity to study and work across Japan, Switzerland, and Denmark. These contexts and extensive travels have fostered a genuine interest in spatial composition and diverse, cross-cultural methodologies. To better understand the complete building lifecycle, I have intentionally dedicated time to advanced BIM methodologies, on-site problem-solving, and hands-on physical prototyping. I value manual fabrication and practical experience as honest ways to humbly test and challenge architectural theory.

Having specifically trained across multiple fields, I try to approach architectural composition, structural design, and technical detailing as deeply interconnected processes. While these elements must continuously inform one another, I recognize the importance of giving each practice the independence it needs. Rather than letting one discipline strictly bind another, I strive to keep boundaries permeable to foster genuine creativity and growth.

I am passionate about the multidisciplinary intersections of architecture, continually striving to explore resilient solutions that merge technical precision with creative ambition.

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Phone: +39 3453383031

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This is a sample portfolio that includes a series of select images from my most recent projects. More information on these projects and full work extracts can be requested to me via e-mail.

CV

Name - Giovanni Secco
Date of Birth - 11.03.1999
Place of Birth - Feltre (BL), Italy

Education

Msc. in Building Engineering and Architecture
Politecnico di Milano, Milan, Italy
Thesys: *“Share Kō Kusei” Design of a tower building with structure and envelope technologies, for a co-dividual* space in the Ginza district of Tokyo.*
Supervisor: Prof. Marco Imperadori
Co-supervisors: Prof. Thomas Daniell, Prof. Giulio Zani, Ing. Grazia Marrone
2018 - 2024

Exchange researcher
Kyoto University, Kyoto ,Japan
2023

Graduate Exchange
KEIO University, Tokyo, Japan
2022

Scientific High School Diploma
Liceo Scientifico G. Galilei, Trento, Italy
2018

Licensed Engineer
Ordine degli Ingegneri della Provincia di Trento, Italy
Ingegnere Civile e Ambientale, Iscritto al N° 4861 dell'Albo - Sezione A.
feb. 2026

Professional experience

Studio Collaborator
Mimeus Architettura, Primiero San Martino di Castroza (TN), Italy
Collaborated on the design and technical development of residential, industrial, and infrastructural projects in alpine environments. Managed the project lifecycle from initial spatial concepts and landscape approvals through to construction detailing, material mockups, and site supervision.
sept. 2025 - current

Indipendent practice
ammonite.work
Managed private architectural and interior design commissions, driving all project phases from spatial concept to executive detailing and site supervision.
march. 2025 -current

Technical office / BIM Coordinator asst.
Odense Hospital Project Team joint venture CMB/Itinera, Odense, Denmark
Assisted in BIM coordination and technical office tasks for a large-scale hospital project in Denmark. Responsibilities included managing design changes directly with subcontractors, providing site-specific technical details, and supporting civil design activities, also ensuring integration of BIM processes across stakeholders.
sept. 2024 - march. 2025

Trainee Architect
KENGO KUMA & ASSOCIATES, Tokyo, Japan
Contributed to the conceptual design phase of a mixed-use tower in Vietnam and re-envisioned a Slovenian historical landmark. Responsibilities included 3D modeling, visual programming, and design.
jun.-sept. 2022

Architectural Intern
ACTarchitettura Sagl. , Chiasso (CH), Switzerland
Assisted in coordinating large-scale mobility masterplan, contributing technical drawings and strategic planning.
apr.-jul. 2020

Selected professional projects

Concept, executive design, and site supervision for a 60 sqm attic renovation in Primiero San Martino di Castrozza. The project created a fluid, multifunctional, and resilient space with a focus on spatial flexibility and minimal adaptation to existing MEP systems (Independent commission with Arch. Jackie Kay Zannetti).

Executive design, technological prototyping, and site supervision of the new Scandola-Tognazza cable car stations in San Martino di Castrozza (in collaboration with Mimeus Architettura and Monplan Ingegneria).

Conservative restoration and residential conversion of a traditional alpine barn in Zortea, TN (in collaboration with Mimeus Architettura).

Design and landscape integration of a new high-altitude industrial pump room in Porta Vescovo (in collaboration with Mimeus Architettura and Monplan Ingegneria).

Architectural design of a new mixed-use residential and agricultural building in Colle Santa Lucia, BL, navigating strict alpine typological constraints (in collaboration with Mimeus Architettura and Ing. Guido De Zolt).

Preliminary and executive design, including the complete authorization process, for the access areas of the Campo-Lastè ski lift in Alpe Lusia (in collaboration with Mimeus Architettura and Monplan Ingegneria).

Architectural design of the new Ferrari high-altitude ski lift in Passo Rolle (in collaboration with Mimeus Architettura and Monplan Ingegneria).

Architectural and interior design of two new flexible hotel rooms in Primiero San Martino di Castrozza (Independent commission with Arch. Jackie Kay Zannetti).

Architectural design and site supervision for the modernization of distribution corridors in a hotel in Primiero San Martino di Castrozza (Independent commission with Arch. Jackie Kay Zannetti).

Professional Development & Training

Mass Timber Seminar – Italia 2024
Hosted by Rothoblaas, Egna, Italy
Participated in a technical seminar focused on mass timber construction. Covered advanced topics in structural design, installation techniques, and sustainable building practices, with insights from industry leaders on innovative solutions for timber engineering.

Tekla Young - 3rd edition
Hosted by Harpaceas, Milan, Italy
Completed training on Tekla Structures, covering modeling, detailing, and BIM interoperability. Passed a two-phase test evaluation (theoretical and practical).
2023

Research / Consulting and design activites

Technical support / Façade engineering

SINAPSI CR², Cremona, Italy
Provided technical support for the façades of a charity daycare project.
2023-2024

Research, Testing and Prototyping

Kyoto Plaster (with Calchera San Giorgio), Valsugana, Italy
Developed and prototyped a bamboo-fiber plaster with enhanced hygroscopic properties.

Design support and assembly

Byobu bench (with Velux Lab and Galloppini Legnami), Milan, Italy
Redesigned wooden joints from the 2015 Milan Expo Pavilion for a modular bench system.

Design support

Panca Karolingia (with Velux Lab and Pedrettu Graniti), Milan, Italy
Optimized granite cutting and detailing for the “Panca Karolingia” bench, now in Vione.
2024

Workshop assistant

Costruire con la luce (for Milan Design Week), Milan, Italy
Assisted Mario Cucinella (MC A), Giulio Camiz (Velux) and Prof. Marco Imperadori.
2023

Concept, Design, and Prototyping

Veneer emergengy housing capsule module (with KOBLab), Tokyo, Japan
Conceptualized and constructed a cheap, CNC-fabricated, emergency housing module.
2022

Concept and Prototyping

AR for sharing spaces, Lecco, Italy
Developed a workflow to share architectural models via Meta’s Augmented Reality API, enabling interactive visualizations.
2020

Publications

Arketipo Magazine n° 173, April 2024

Shared Houses Tokyo, Japan
Contributed architectural photography for the article by Prof. Marco Imperadori, showcasing research conducted in Japan.
2024

Interests

I am passionate about exploring and creating at the intersection of technology, design, and art. My interests span across:

Architectural projects where structural and environmental design becomes seamless and active part of the process.
Exhibition, product and fashion scenography design.
Photography, Graphic Design and Illustration.
Coding & AR.

I am genuinely very open to exploring new things and always enter every experience with fresh excitement and wonder.

Skills

Languages

Italian: Native
English: Advanced (C1)
German: Elementary (Actively willing to improve if required)

Communication Skills

Strong communication skills developed through professional collaborations, public presentations, and teamwork in international settings.

Organizational and Managerial Skills

Experience managing clients, site coordination, and other professional tasks. Skilled at organizing work and delegating tasks within teams.

Leadership

Led multiple teams between schoolwork and in professional settings.

Digital Skills

Advanced in information processing, communication, content creation, and simulations. Proficient with tools for design, BIM coordination, and technical drawings.

Driver’s License: B

Design & Technical Tools

Extensive experience in drawing and modelling.

Autocad
Rhino
Revit
Archicad
Blender
Sketchup

Professional role in BIM coordination.

Revit
Solibri
Dalux
DRofus
NaviateNexus

Strong skills in representation, illustration, and storytelling.

Adobe Suite
Affinity Suite
Ms Powerpoint

Rendering.

Enscape
Lumion

Reporting, datasheets and other tasks, for both calculations and management.

Ms Word
Ms Excel

Budgeting and cost calculation

Mastro 6K

Professional and academic use of Visual programming tools, for modelling, optimisation, simulations and data extraction.

Grasshopper (mainly Ladybug, Dragonfly and Radiance tools)

Dynamo

Various use of simulations tools for fluidodynaics, structural performance, FEM, illumination and energy optimisation.

Ansys suite (mainly Fluent)

Tekla Structures

Midas Gen

Velux Daylight visualizer

Suite ANIT

Therm

Geographical data extraction.

QGis

Background in coding and problem solving through algorithms.

Agentic AI workflows

C++

Python

html

Javascript

Prototyping and 3D printing

BambuStudio

Rhino/Grasshopper



The House "Lungo Canali" is an ongoing project of a small 60 m2 home in a culturally intricate location, Primiero, placed at the foot of the Dolomite chain of Pale di San Martino. The house is a posthumous attic of a three story building. The client wanted to take the opportunity to develop the space under the roof, and requested the design of a new living space for two. The sloping roof was the first theme to deal with, as the amount of natural light that was allowed to enter the home was a big priority, and the placement of the services could pose obstacles for that.

We decided to make the bathroom a central volume, with the kitchen adjacent. The floor that leads from the entrance to the other side of the house, incorporates the central volume, is elevated, underlining the different quality of space, and because of a very practical solution: in order to allow the sewage to move to the perimeter where it could connect to the lower floors.

The spaces were thought out to have flexible and playful solutions for a young couple.

Casa LC - Private commission

Attic Renovation in Primiero San Martino di Castrozza (TN) to give a young couple a flexible living space capable of satisfying current and future needs of space.

Large balcony overlooking the alpine landscape

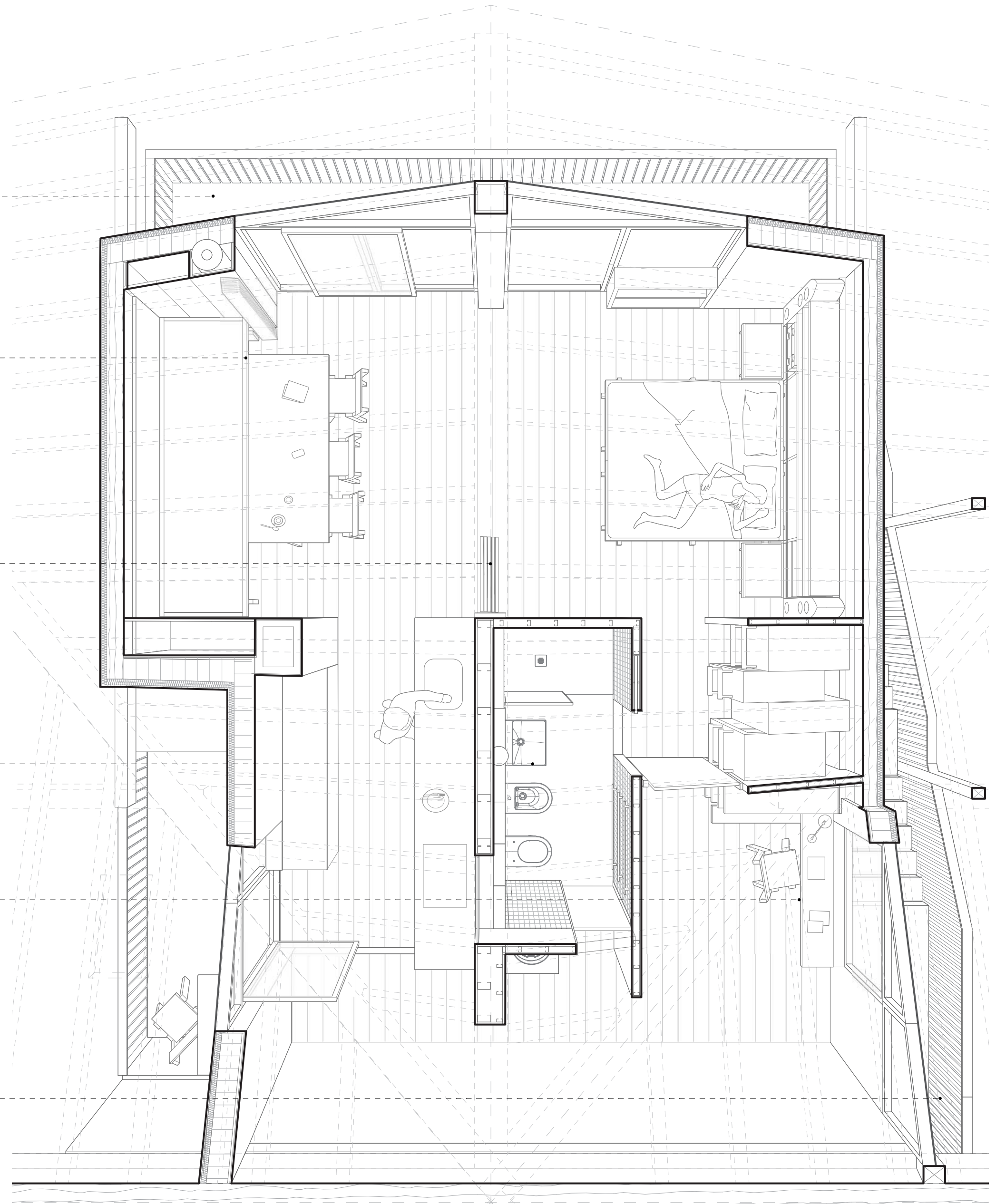
The living room area is designed to fit a long couch, large enough to turn into two beds to host friends and family

Sliding wall panels allow the living room to free-flow into the bedroom to expand both spaces on demand

The bathroom, as a central volume, allows full circulation around the house making the space feel remarkably large

Atrium/Office, the big window allows the clients to showcase their work and create a sort of small studio space

New outdoor access deck



Casa LC - Private commission

Attic Renovation in Primiero San Martino di Castrozza (TN) to give a young couple a flexible living space capable of satisfying current and future needs of space.

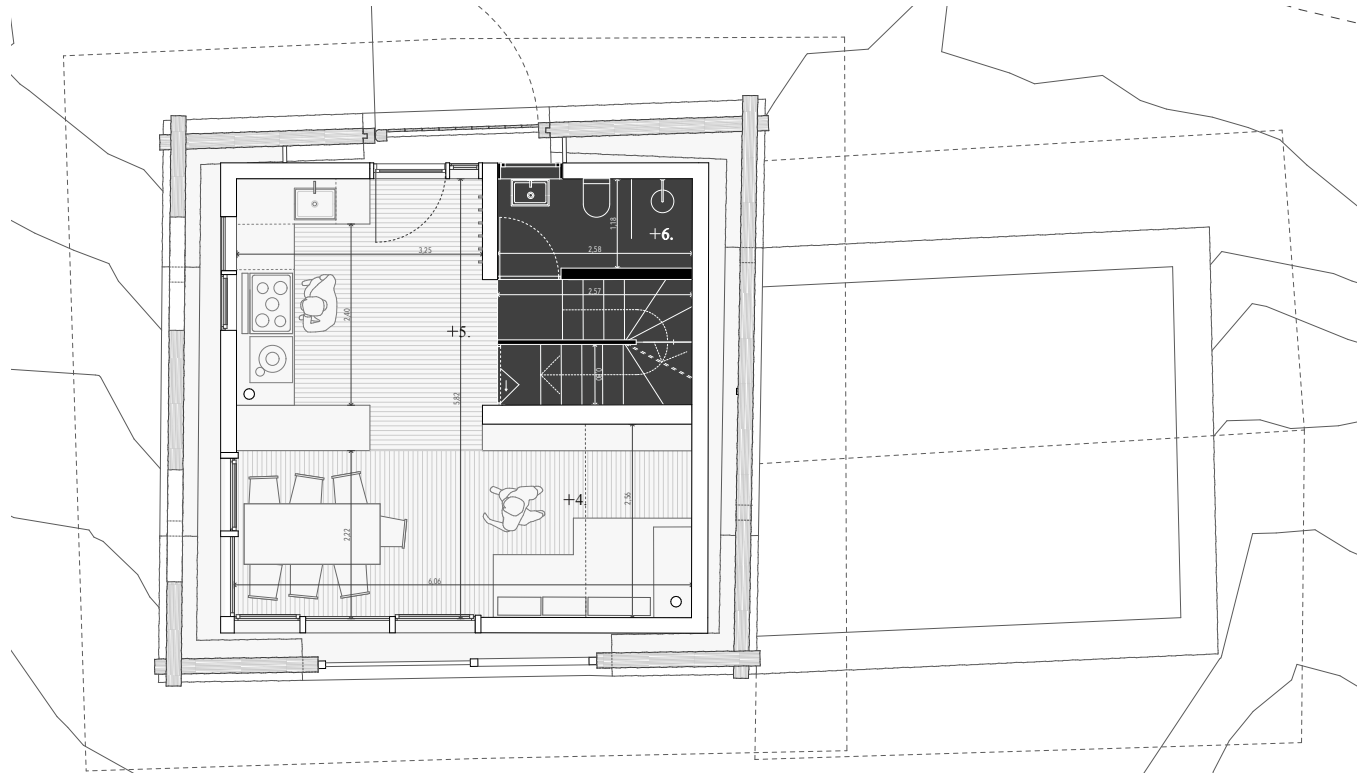
I worked on:
Full responsibility as private commission



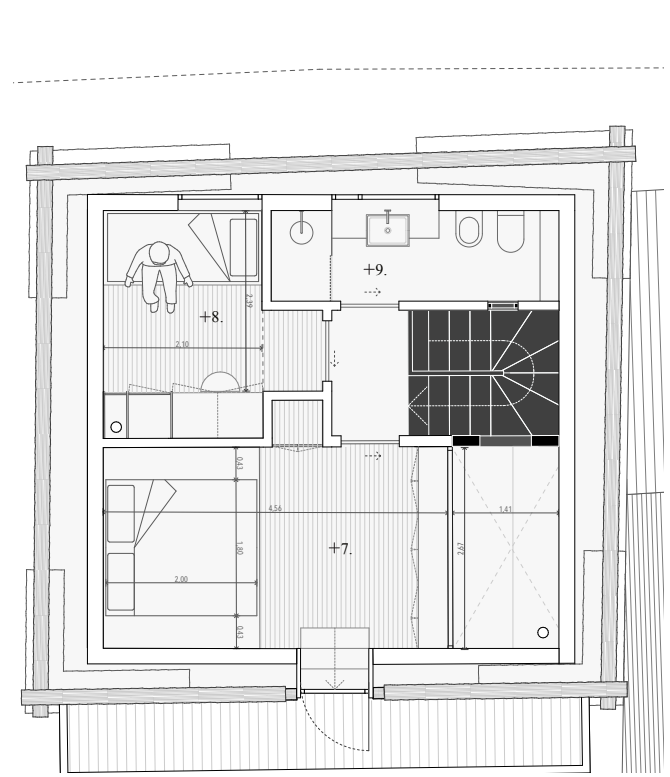
Adaptive Reuse of an Alpine Barn in Zortea (TN) - Collaboration with Mimeus Arch.

Restoration of a disused barn in Zortea, Canal San Bovo (TN), to house a small family of three and include a big sound room to enjoy music on a tight budget.

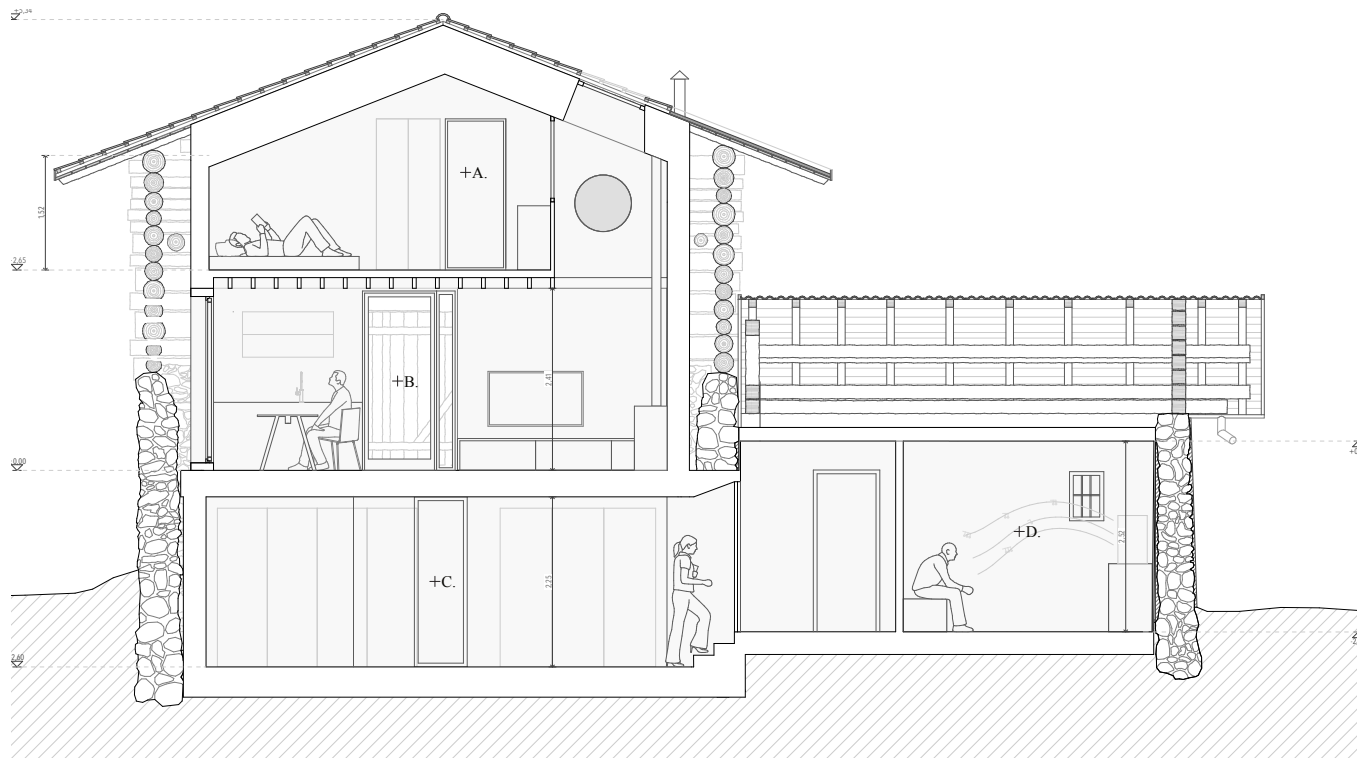
I worked on:
Design, Managing clients and contractors, Project Visualization, 3D Prints, Structural design, Technical details, Landscape and urban approvals, Budgeting.



Ground floor plan



Upper floor plan



Longitudinal section

- 4. Living Room
- 5. Kitchen
- 6. Bathroom
- 7. Main Bedroom
- 8. Single Room
- 9. Main bathroom

- A. Sleepin quarters
- B. Living Room
- C. Laboratory
- D. Music Room



South elevation

This project involves the conservative restoration and residential conversion of a traditional barn in Zortea, TN. To preserve the structural integrity and heritage of the original envelope, an independent balloon frame was built internally, operating on a "box-in-a-box" spatial logic.

Respecting stringent landscape regulations, the facade's original blockbau slits are carefully manipulated, either subtly enhanced or selectively subtracted, to modulate natural light. This light filters through the wooden skin, framed by expansive internal windows that capture a continuous dialogue between the raw heritage structure and the surrounding landscape. Functionally, a later addition is repurposed into a dedicated music room, creating a fluid vertical connection to the lower-level workshop and laboratory spaces.

Adaptive Reuse of an Alpine Barn in Zortea (TN) - Collaboration with Mimeus Arch.

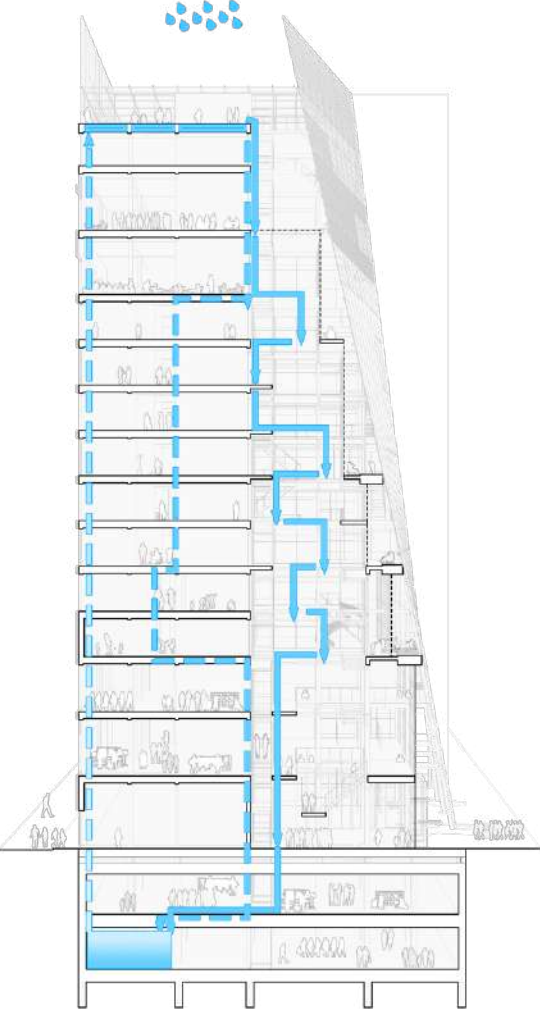
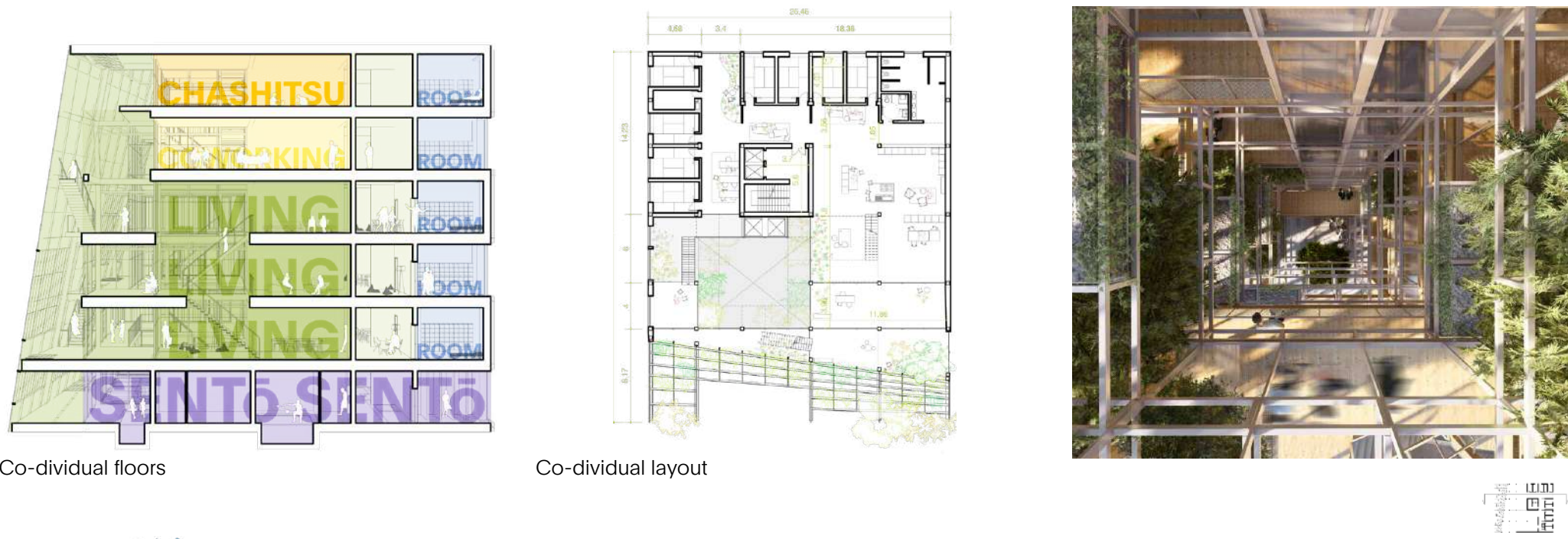
Restoration of a disused barn in Zortea, Canal San Bovo (TN), to house a small family of three and include a big sound room to enjoy music on a tight budget.



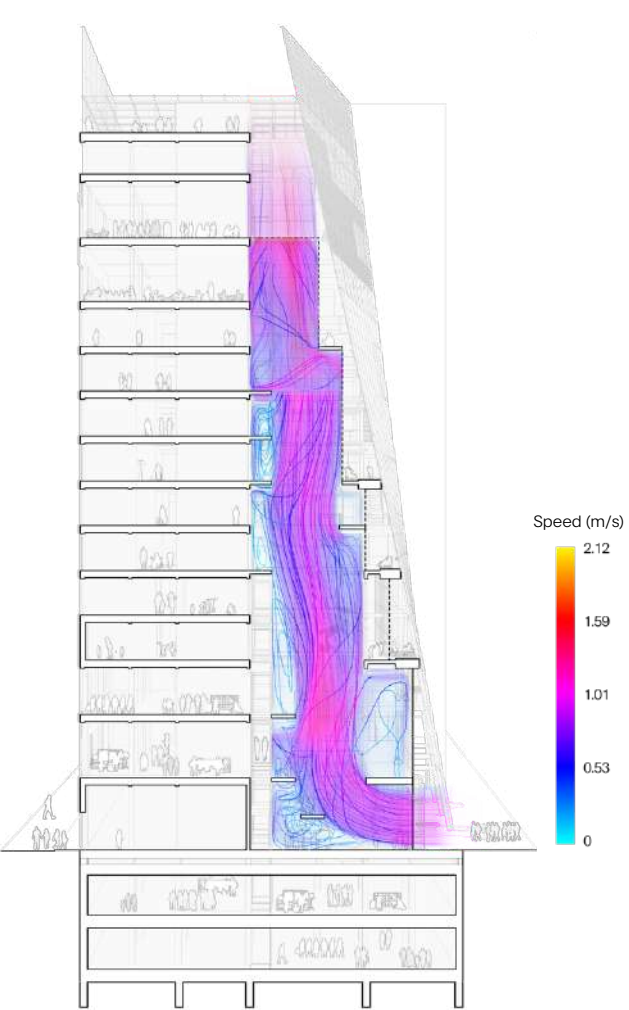
Share Kō Kusei - Master thesis in Building Engineering and Architecture

Design of a tower building with structure and envelope technologies, for a co-dividual* space in the Ginza district of Tokyo.

I worked on:
Design, Project Visualization, Structural calculations,
Building engineering, Fire Safety, Technical details,
Energy Optimisation, Natural Ventilation, Garden
system, Solar Fitting



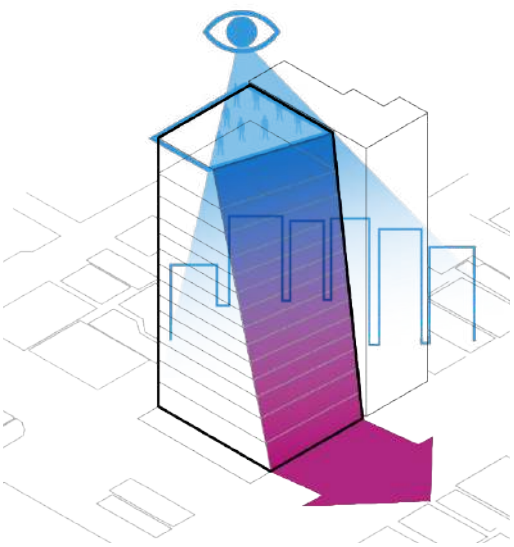
Optimization of the water cycle for the collection and reuse of rainwater.



The ventilation shaft ensures natural ventilation during mild months.



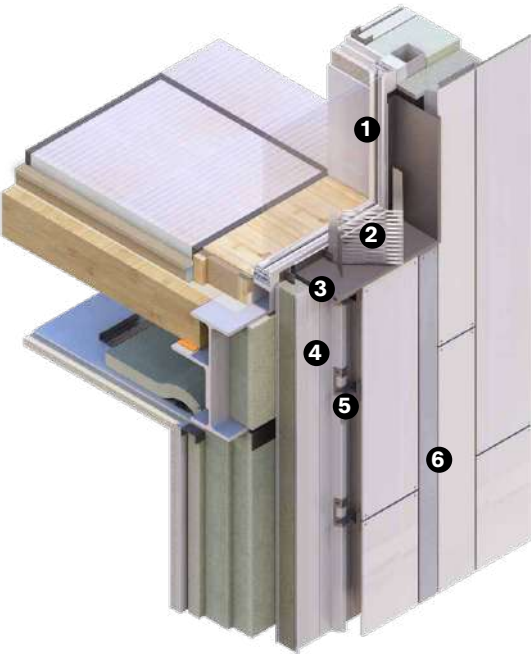
The vertical bamboo forest improves air quality and reduces noise pollution.



Adaptive facade to optimise sqm, natural light and solar gains.

Window opening detail

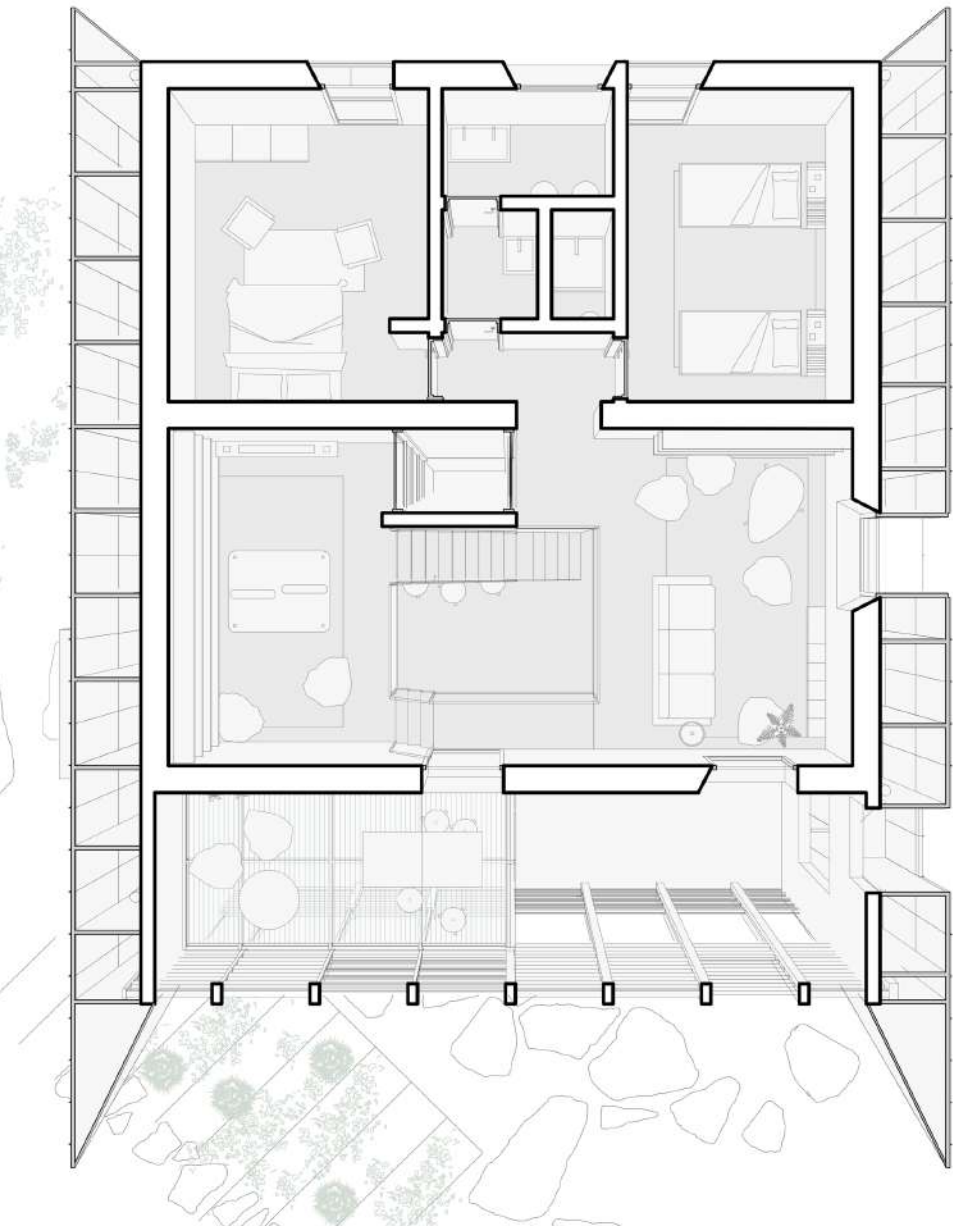
- 1 Double-glazing window with pvc frame
- 2 Expanded metal sunshade
- 3 Metal flashing
- 4 Sandwich panel
- 5 Arkwall system (Isopan)
- 6 Pressed rockwool panels with screen-printed bamboo pattern



Hybrid system with cross laminated bamboo, steel and dry construction methods.

Share Kō Kusei - Master thesis in Building Engineering and Architecture

Design of a tower building with structure and envelope technologies, for a co-dividual* space in the Ginza district of Tokyo.



Second floor



Common area section

House in Colere - Design and Technological Innovation +Dry Stratified Technology Laboratory

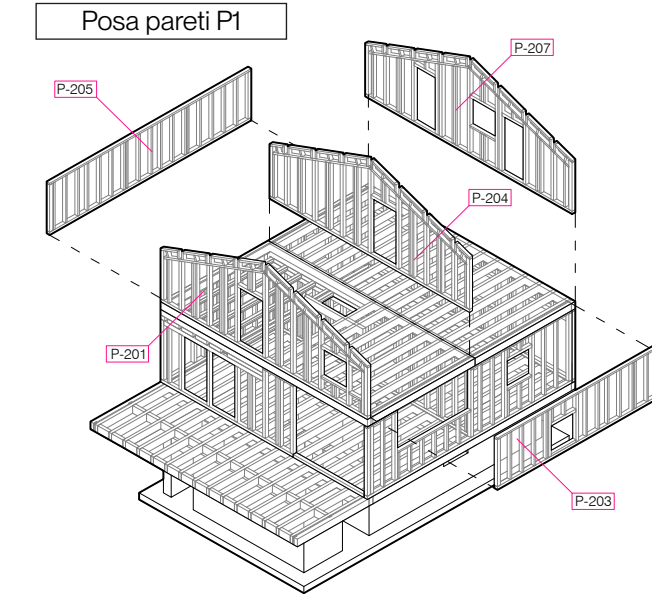
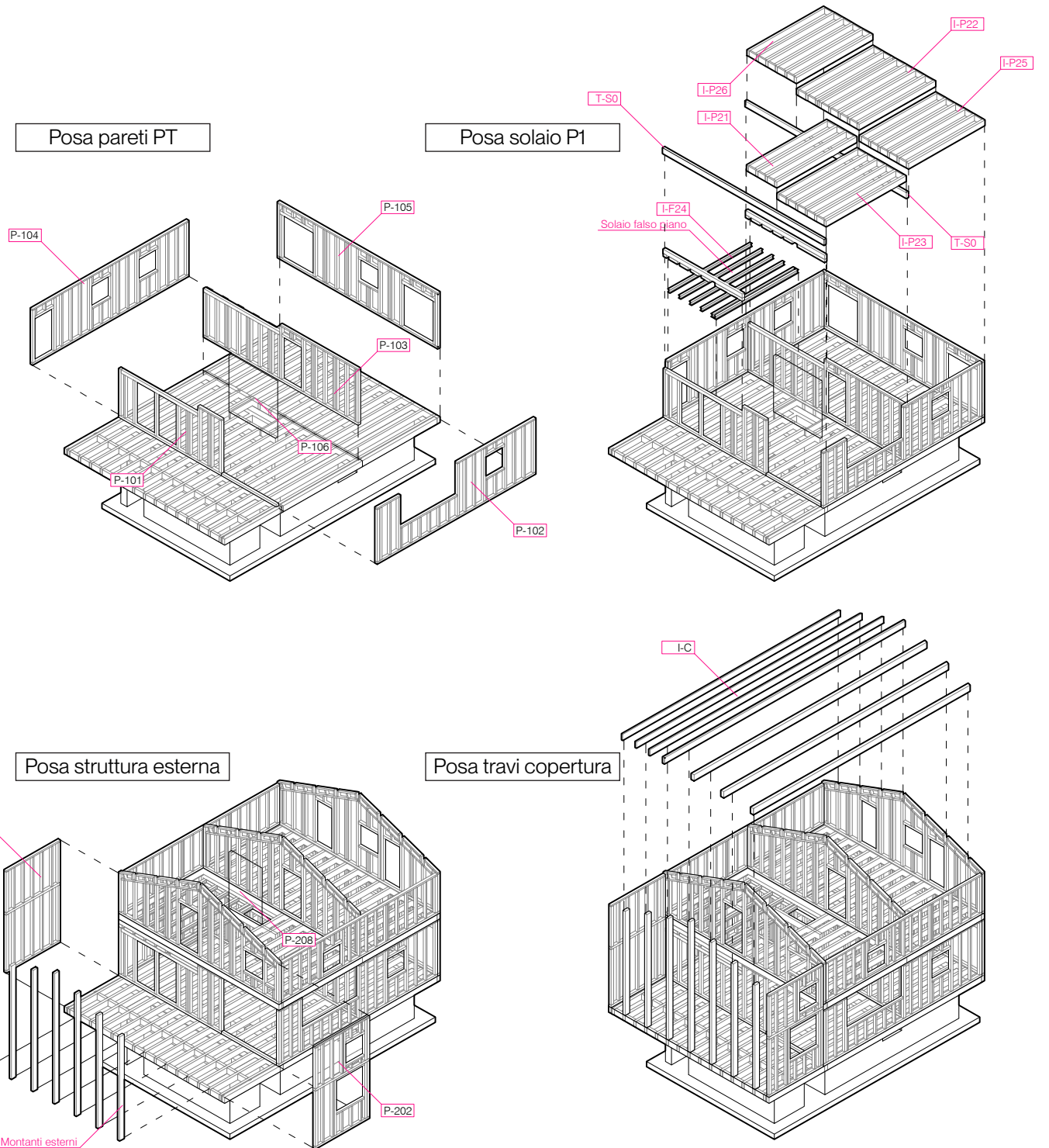
Design of a co-living space in the Bergamasque Alps with DS Technology, integrating technical development as a core design aspect.

I worked on:

Design, Project Visualization, Structure, Technical Details, Energy Optimisation, Solar Fitting, Construction procedure



S-E facade



Construction phases

House in Colere - Design and Technological Innovation +Dry Stratified Technology Laboratory

Design of a co-living space in the Bergamasque Alps with DS Technology, integrating technical development as a core design aspect.

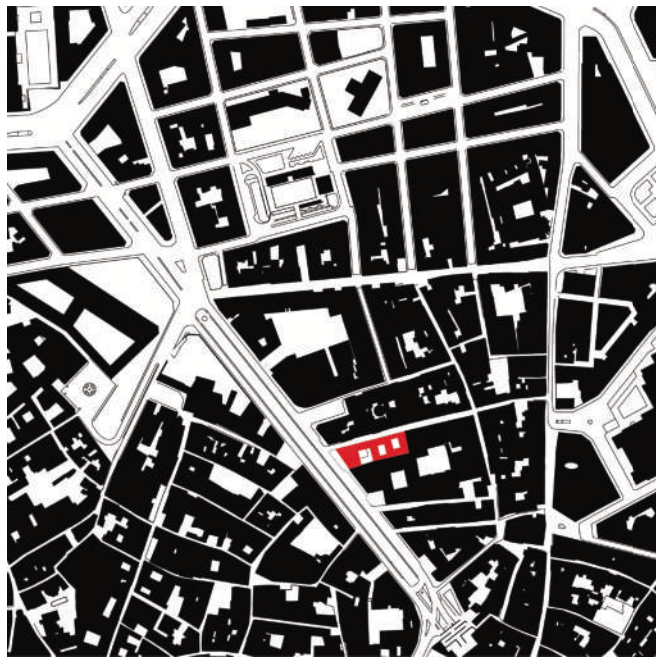


**Modern Art Museum Palma -
Architectural Planning L Studio**

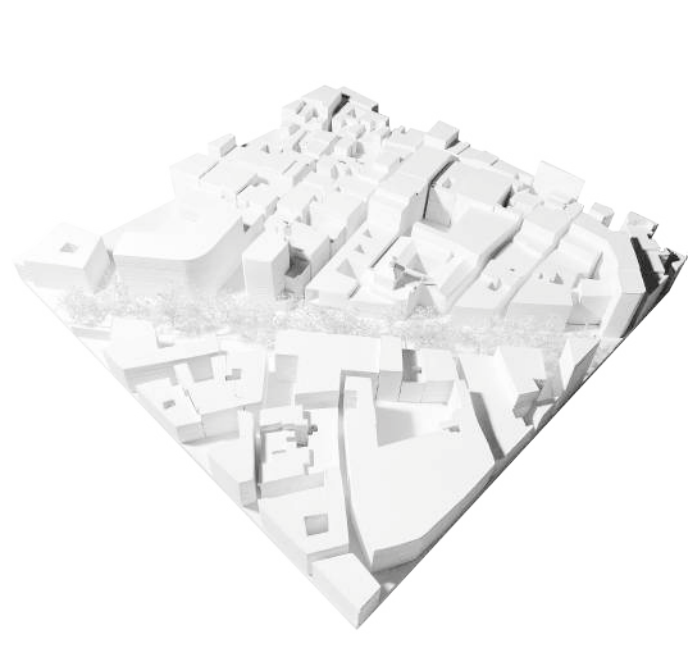
How much breathing space does an artwork need?

Project for an art museum in a small lot near a monastery in Palma de Mallorca, Spain.

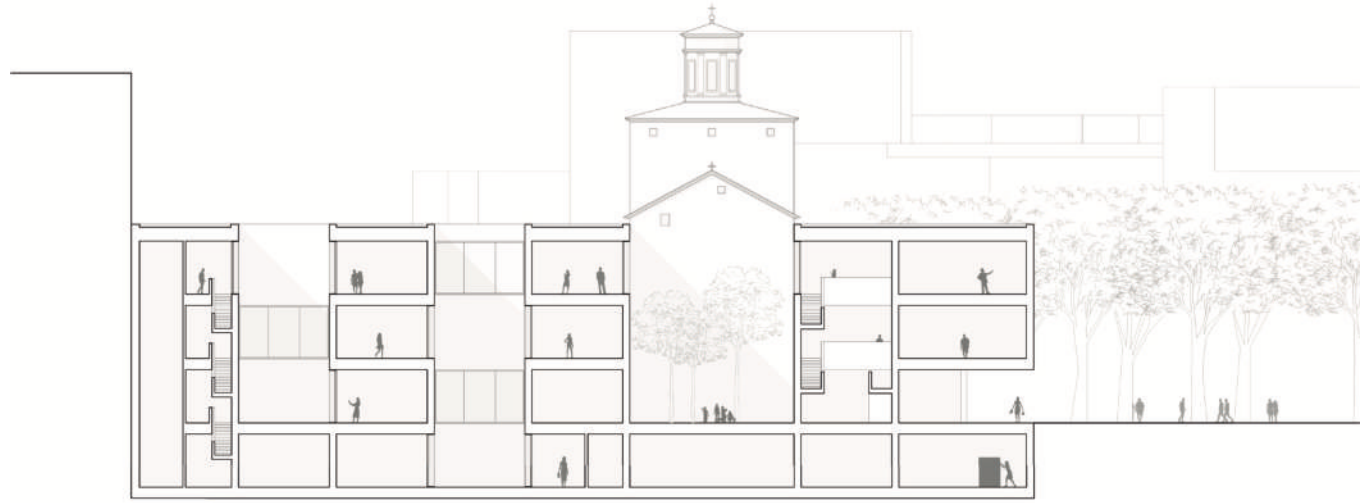
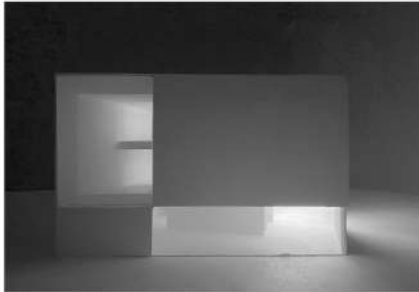
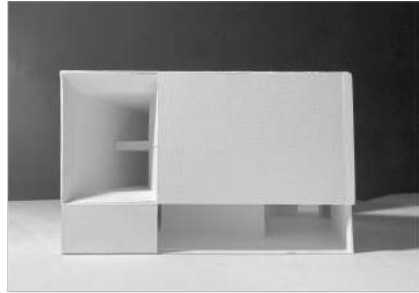
I worked on:
Project Design, Project Visualization, Maquette



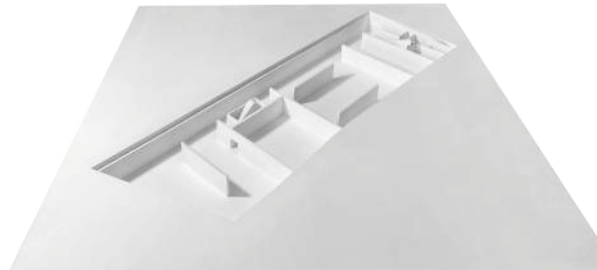
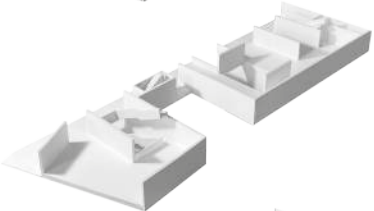
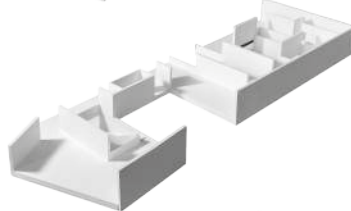
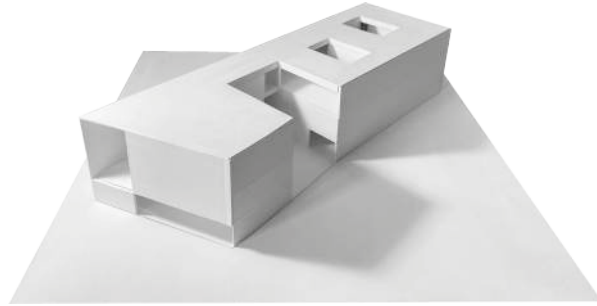
Masterplan



Models



Longitudinal section of gallery spaces and courts



**Modern Art Museum Palma -
Architectural Planning L Studio**

How much breathing space does an artwork need?

Project for an art museum in a small lot near a monastery in Palma de Mallorca, Spain.

Research, Testing and Prototyping

Kyoto Plaster (with Calchera San Giorgio),
Valsugana, Italy

Developed and prototyped a bamboo-fiber
plaster with enhanced hygroscopic
properties.

2023-2024



Technical support / Façade engineering
SINAPSI CR², Cremona, Italy

Provided technical support for the façades
of a charity daycare project.

2023-2024



Concept, Design, and Prototyping

Veneer emergengy housing capsule
module (with KOBLab), Tokyo, Japan

Conceptualized and constructed a cheap,
CNC-fabricated, emergency sleeping
module.

2022



Research / Consulting and design activites

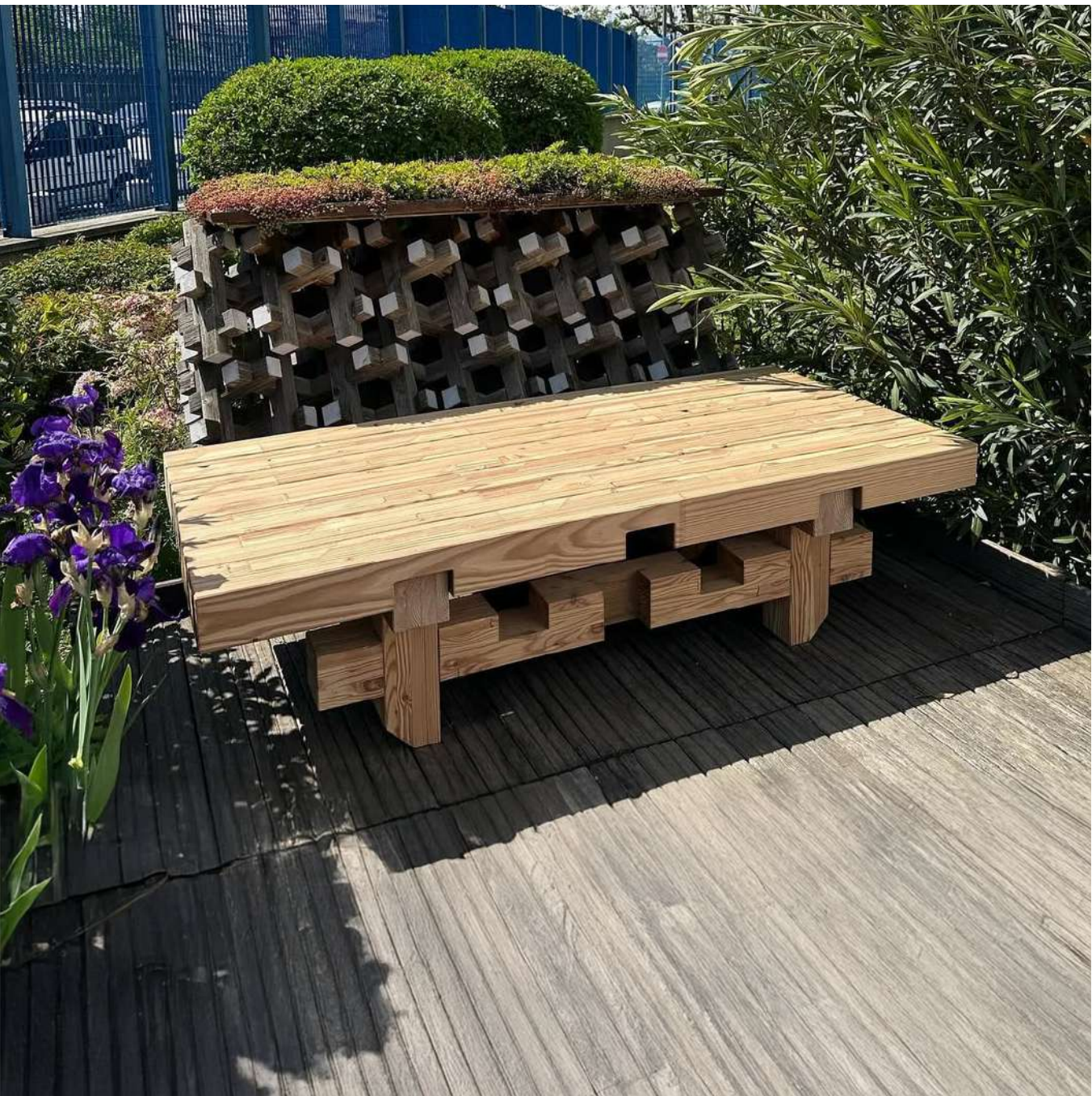
Projects I contributed to, where I applied my design
and technical skills, resulted in built prototypes,
functional structures, and realized designs in
architecture, furniture, and construction.

Design support and assembly

Byobu bench (with Velux Lab and
Galoppini Legnami), Milan, Italy

Redesigned wooden joints from the 2015
Milan Expo Pavilion for a modular bench
system using pavillon left overs..

2024



Poster designed for the benches, now part of the zen
garden at MAO museum of oriental arts in Turin.



Research / Consulting and design activites

Projects I contributed to, where I applied my design
and technical skills, resulted in built prototypes,
functional structures, and realized designs in
architecture, furniture, and construction.

Giovanni Secco

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Thank you for your interest !