



Capaldini Engineering Associates

Innovation and Memory

**Company
Profile
2026**

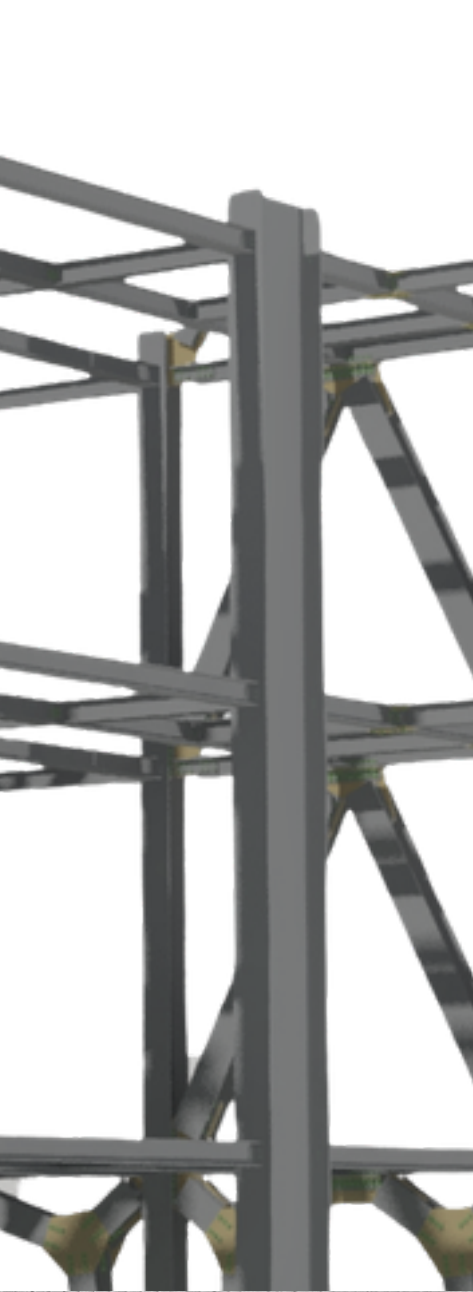
Capaldini Engineering Associates is a professional firm with over fifty years of experience in structural design, earthquake engineering, the redevelopment of the built heritage, and the integrated management of design processes.

Thanks to an interdisciplinary approach and the use of the most advanced digital technologies, we support our clients through every phase of the project, from the initial idea through to its realization.

We work to ensure practical design solutions, safety, sustainability, and control of the entire construction process.

About us





Our Vision

We believe that engineering is a fundamental tool for improving quality of life, protecting the environment, and building safe, sustainable infrastructure capable of meeting the needs of the future.

Our vision is to contribute to the evolution of the construction sector through technological innovation, the digitalization of processes, and the adoption of industrialized construction systems, with the aim of making construction increasingly efficient, safe, and sustainable.



For us, innovation also means engaging with history, combining the most advanced engineering solutions with the restoration, strengthening, and conservation of historic, monumental, and religious buildings.

Intervening in the built heritage means preserving identity and memory, restoring functionality and giving buildings a new lease of life, thereby contributing to the regeneration of the territory and the social fabric.

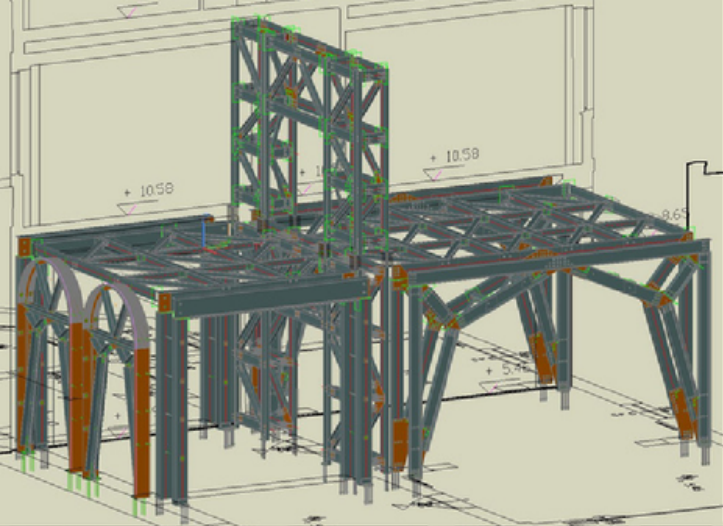
Restoration is not merely conservation: it is rebirth.





Our Mission

To deliver projects that combine technical expertise, innovation, sustainability, and safety, providing clients with reliable, high-value solutions.



Our Expertise

Structural Engineering

Design and assessment of steel, reinforced concrete, masonry, and timber structures.

Earthquake Engineering

Vulnerability assessment, seismic improvement, and seismic upgrading of existing buildings.

Civil Engineering

Integrated design of residential, commercial, and industrial buildings, as well as public works.

Construction Supervision

Technical coordination, quality control, and management of construction schedules and costs.

Building Information Modeling (BIM)

Development of intelligent digital models for multidisciplinary coordination and management of the entire life cycle of a project.

Restoration and Redevelopment

Strengthening and enhancement of historic and monumental built heritage.

Our Method

The background of the slide features a faded, artistic rendering of a historic stone building, possibly a fortress or monastery, built into a hillside. The building has multiple levels, arched windows, and a prominent tower with a crenellated top. The overall tone is warm and historical.

Every project is developed according to a structured process that ensures precision, transparency, and control.

1. Preliminary analysis
2. Feasibility study
3. Integrated design
4. BIM modeling
5. Structural assessments
6. Construction supervision
7. Final testing
8. Ability to coordinate the process and all parties involved

This approach helps reduce risks, optimize time and resources, and ensure the highest quality at every stage of the project.



Digital Innovation

Innovation is one of the pillars of our work.

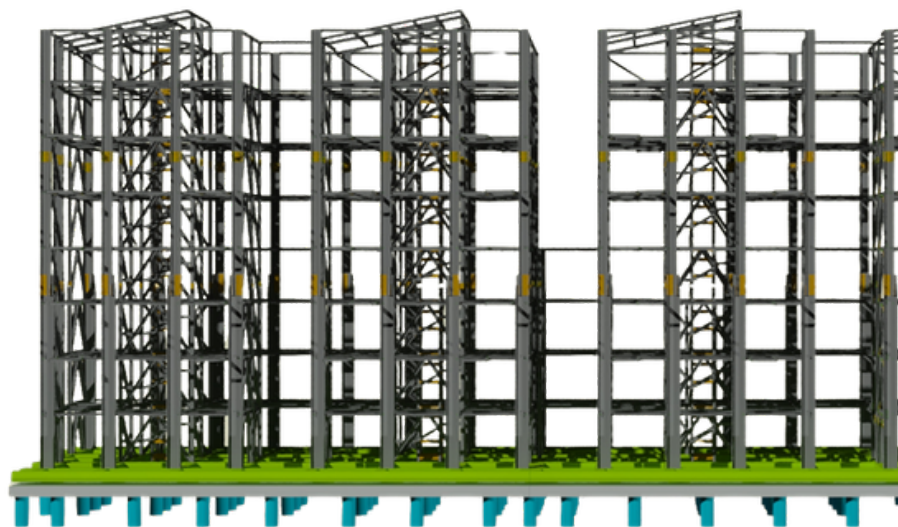
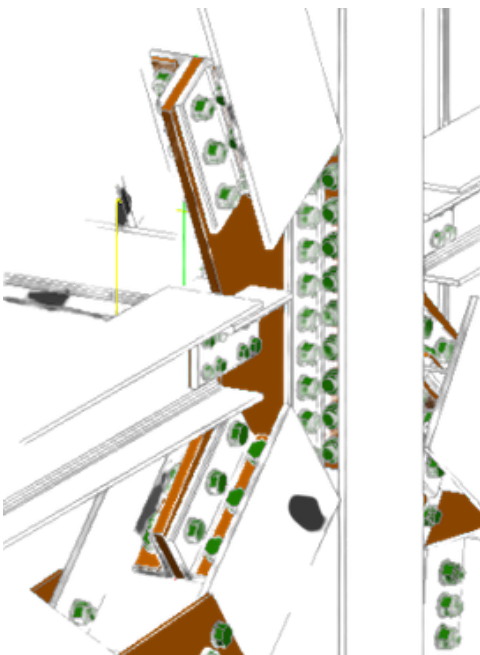
Through the use of Building Information Modeling (BIM) and Computer-Aided Manufacturing (CAM), we develop advanced digital models that improve coordination between different disciplines, reduce design conflicts, and enable precise control of the entire construction process.

Prefabricated Steel Building Technology

One of the most innovative areas developed by the firm concerns the design of buildings with load-bearing structures made of prefabricated steel.

Through digital modeling and the industrialized production of components, each element is manufactured to high quality standards and then assembled on site according to planned procedures.

This methodology significantly reduces construction times, improves execution quality, and ensures high levels of safety and sustainability.



The Advantages of Steel Construction

The solutions developed by the firm offer numerous advantages:

- Reduced construction times.
- Greater cost control.
- High performance in seismic areas.
- Production precision thanks to industrial prefabrication.
- Certified and fully recyclable materials.
- Reduced environmental impact.
- Excellent thermal and acoustic performance.
- Greater efficiency in site management.



Restoration of Monumental Buildings

Earthquakes and crisis situations can seriously damage monumental buildings, which are part of a territory's historical, artistic, and cultural identity. The restoration of these assets requires a highly specialized approach capable of integrating historical knowledge, structural analysis, and architectural preservation.

Each intervention is conceived as a unique project aimed at strengthening structures through innovative, including experimental, technologies and materials. The effectiveness of the solutions adopted has led some of our projects to be recognized as case studies by leading international universities.



Restoration and Strengthening

Our approach goes beyond the traditional concept of “where it was and as it was,” pursuing a more advanced principle: “where it was and better than it was.” The goal is to restore to the historic asset not only its surfaces and decorations, but also the full efficiency of its structures and architectural context, contributing to the preservation of the territory's identity and its social regeneration. In a single word: restoration as a holistic concept.



Sustainability

For Studio Capaldini, design also means taking responsibility for the future.

That is why we promote solutions that prioritize recyclable materials, efficient construction processes, and technologies capable of reducing energy consumption, emissions, and environmental impact. Innovation and sustainability are inseparable values in the way we practice engineering.

Why choose us?

- Proven experience.
- High technical expertise.
- Multidisciplinary approach.
- Integrated design.
- Specialization in structural and earthquake engineering.
- Digital innovation and BIM-CAM methodology.
- Advanced construction technologies.
- Reliability and design quality.
- Sustainable, future-oriented solutions.



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