

MY PORTFOLIO

Reza Bagheri BIM Modeler





Reza Bagheri

MY PROFILE

31 years old
Resident of Mashhad
Having a military service card
And married

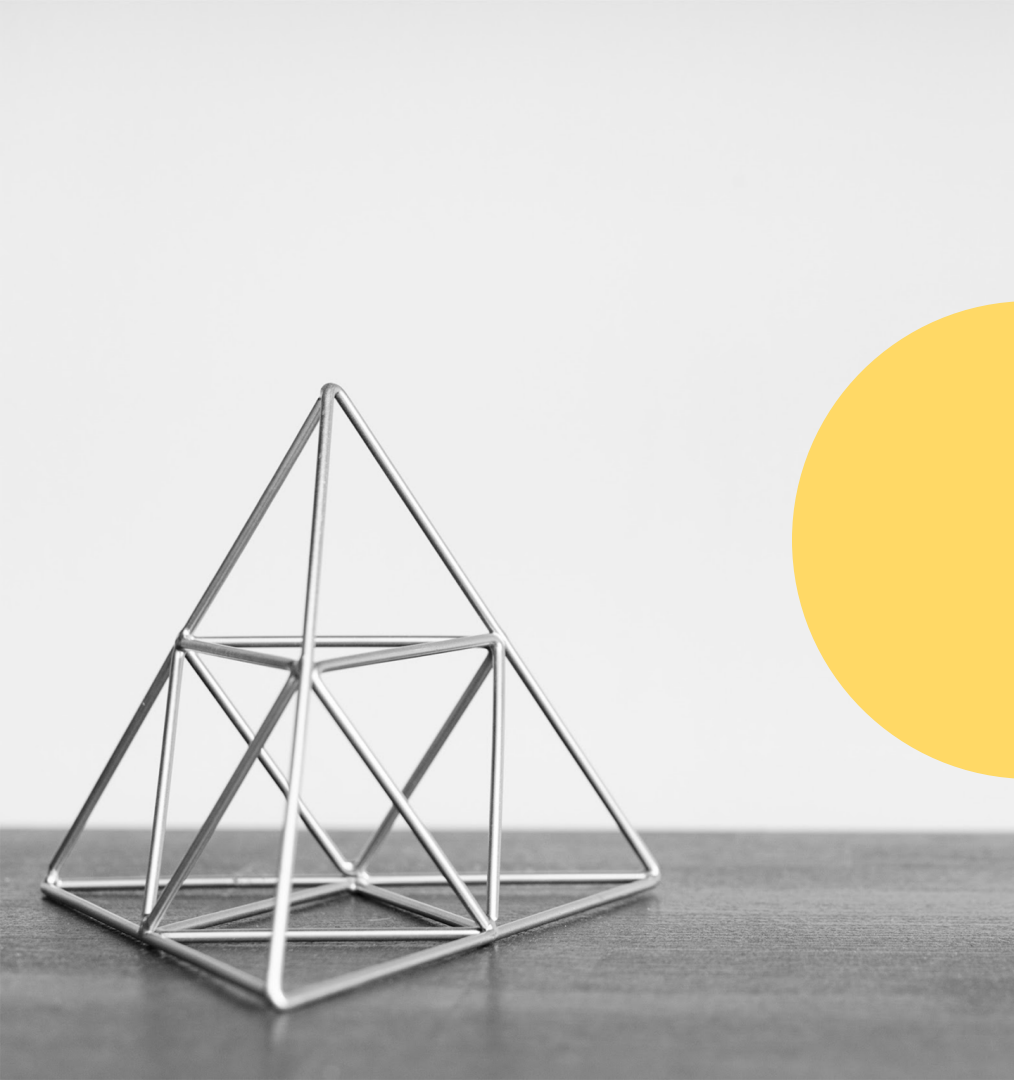
MY RESUME

EDUCATION

- B.Sc. in Architecture, Islamic Azad University
- Vocational degree in Automotive Mechanics.
- Obtaining a work permit as a supervisor and contractor architect at the Mashhad Engineering System Organization.

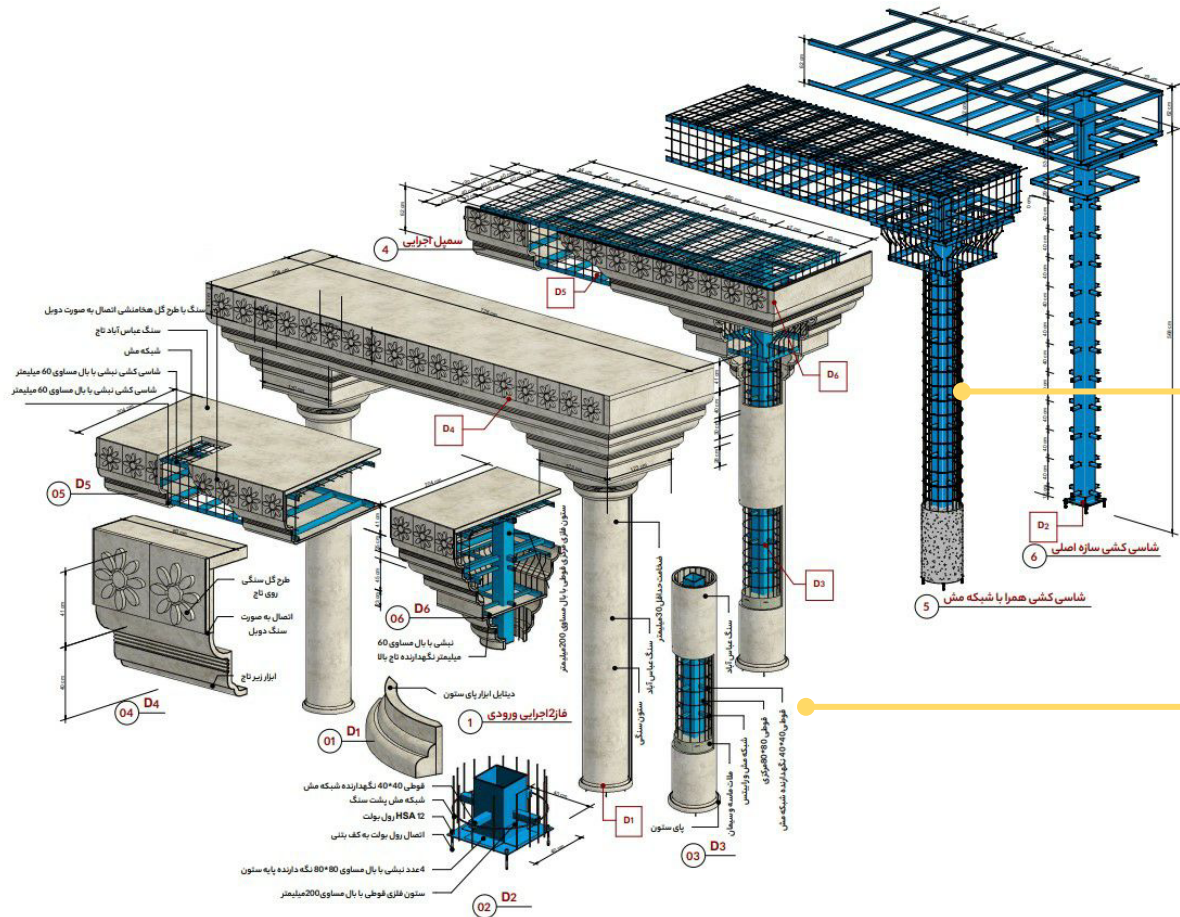
Personal resume

1. **Reza Bagheri**
Architectural Engineer with 5+ years in **BIM, design, and project management**.
Expert in **AutoCAD, Revit, 3D modeling**, and **structural design** (steel/concrete).
Licensed supervisor & executor by Iran's Engineering Organization.
BIM Modeler **Mashhad Metro Line 2** architecture.
2. **Key Skills:**
Construction supervision & budget/time management.
Technical office operations & material estimation.
Interior design (modern/classic kitchens, conference halls).
Compliance with national building codes.
3. **Education:**
B.Sc. in Architecture, Islamic Azad University
Vocational degree in Automotive Mechanics.
4. **Certifications:**
Steel/Concrete Structures & Demolition



My Portfolio

Villa Entrance Portal



Phase Two: Main structural system including steel framing and technical profile specifications.

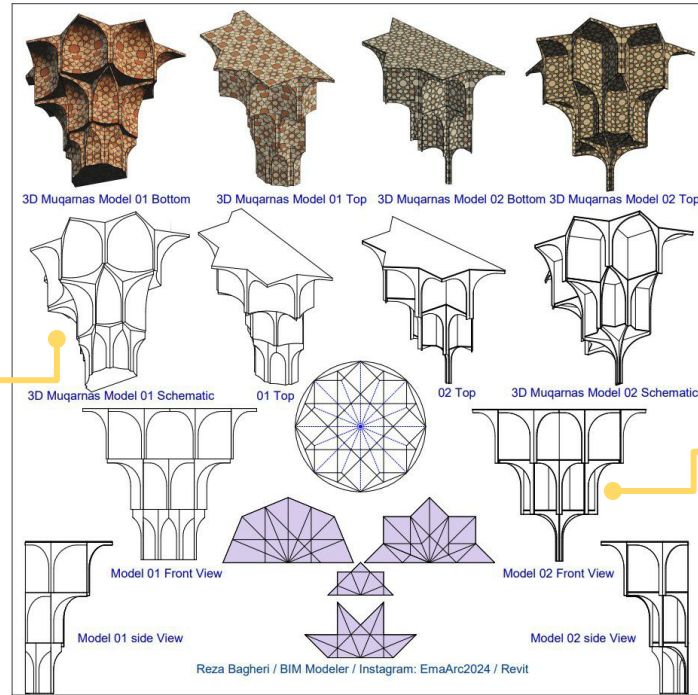
Architectural execution details for accurate project implementation.

The facade material is travertine stone.

Persian decorations

Muqarnas in Iranian Architecture

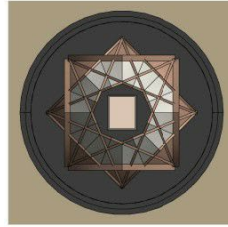
Muqarnas is a unique form of ornamentation widely used in Islamic architecture, particularly in Iran. It consists of a complex arrangement of geometric shapes and interlocking patterns, often forming a stalactite-like structure. Typically used in ceilings, domes, vaults, and prayer niches (mihrabs), muqarnas serves both decorative and functional purposes, helping to transition between different architectural elements or surfaces.



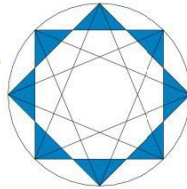
In Iranian architecture, muqarnas is an expression of the intricate craftsmanship and artistic heritage of the region. Its design often reflects symmetry, balance, and a deep understanding of geometric principles. The use of muqarnas not only enhances the aesthetic appeal of a structure but also symbolizes the spiritual connection between the earthly and divine realms. This unique decorative feature can be found in some of Iran's most renowned historic sites, including the Shah Mosque in Isfahan and the Sheikh Lotfollah Mosque, where it plays a key role in elevating the beauty and grandeur of the space.

Sun geometry

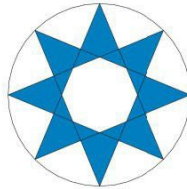
The geometric design of Shamseh features symmetrical, radiating patterns, usually extending from a central point into triangular or star-like shapes. This radial arrangement creates a sense of energy and balance.



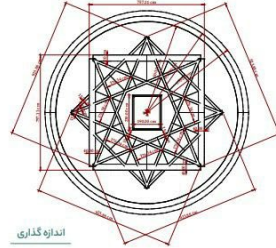
پلان سایت



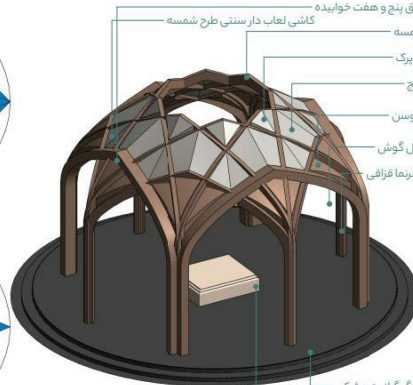
پلان کاربردی



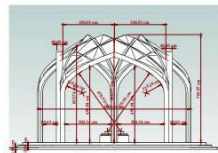
نمای شمالی



اندازه گذاری

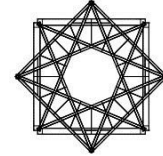


مدل سه بعدی



اندازه گذاری نما

طراح: رضا باقری
نام طرح: مقبره شهدای گمنام



فریم بندی



The Shamseh

The Shamseh (sunburst) in Iranian decoration symbolizes light, warmth, and divine enlightenment. Its radiant, geometric design represents the sun's energy and the infinite nature of the universe, reflecting spiritual illumination and the connection between the earthly and divine. This symbol is often seen in religious and monumental architecture

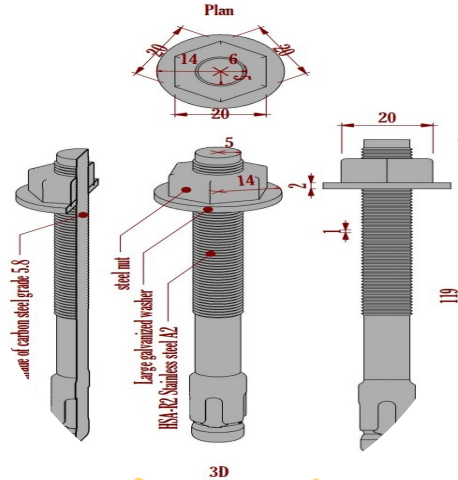
01



Car seat belt tensioner family

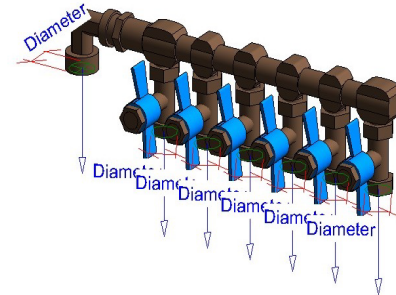
Car belt tensioner

02

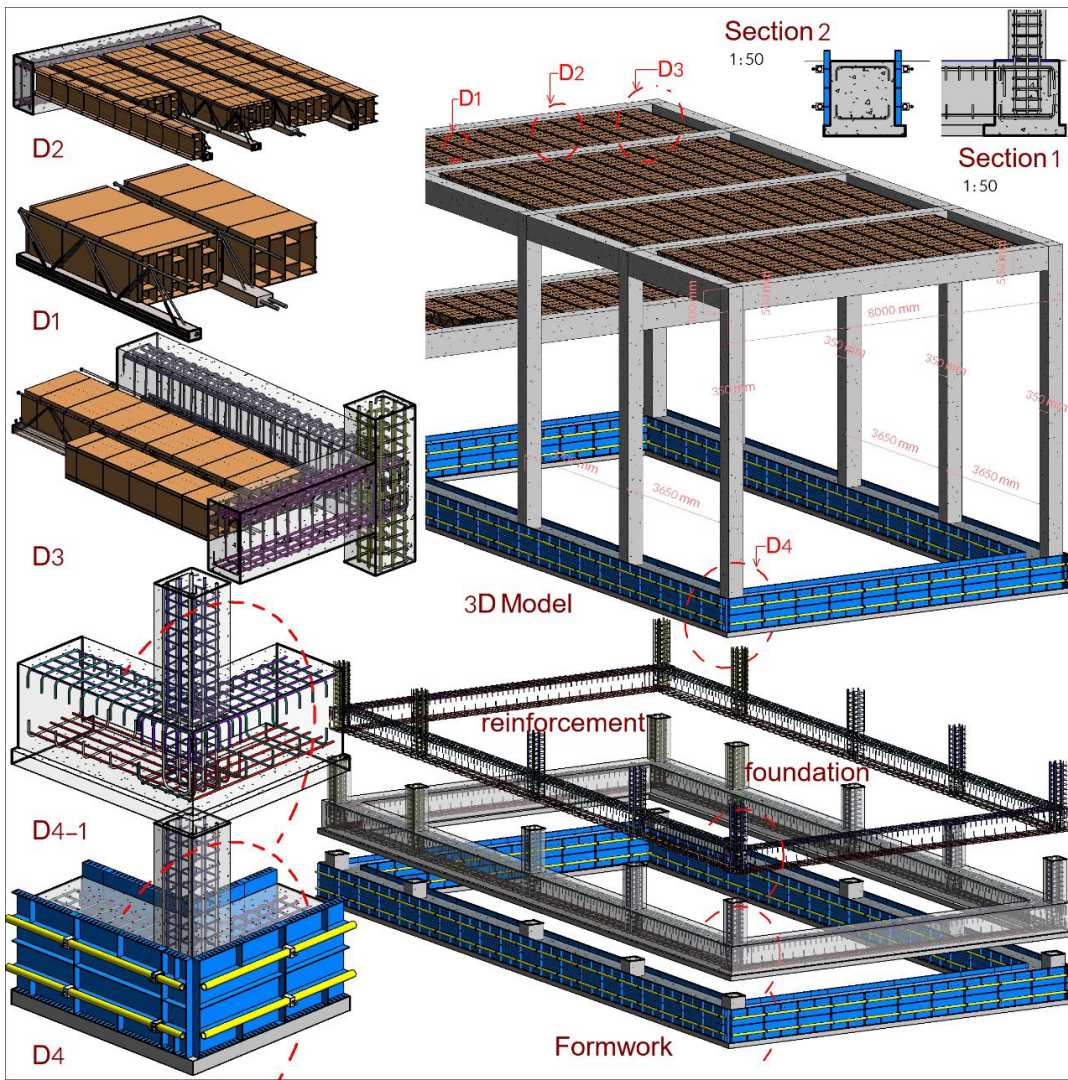


Anchor Bolt

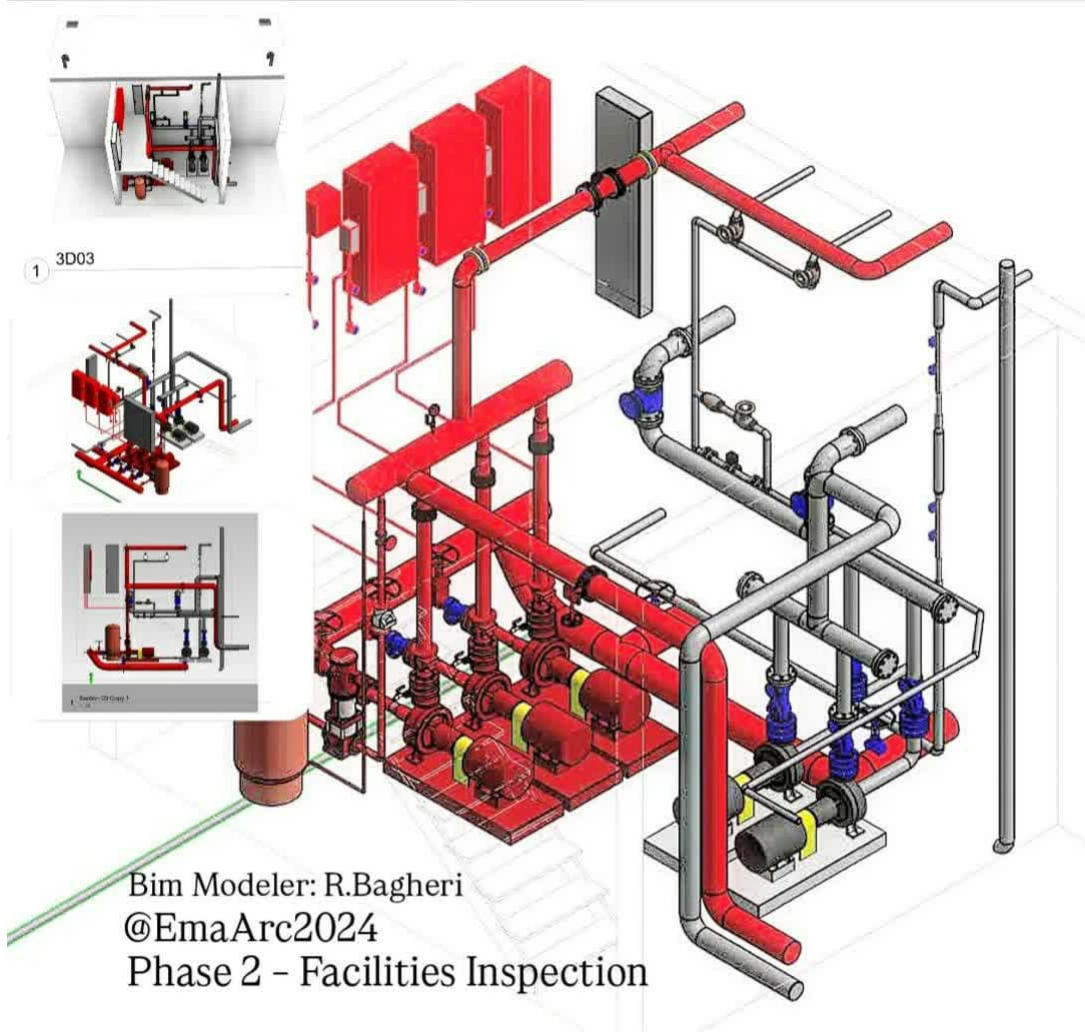
03



Facility Collection



Concrete structure with
rebar placement with LOD 350



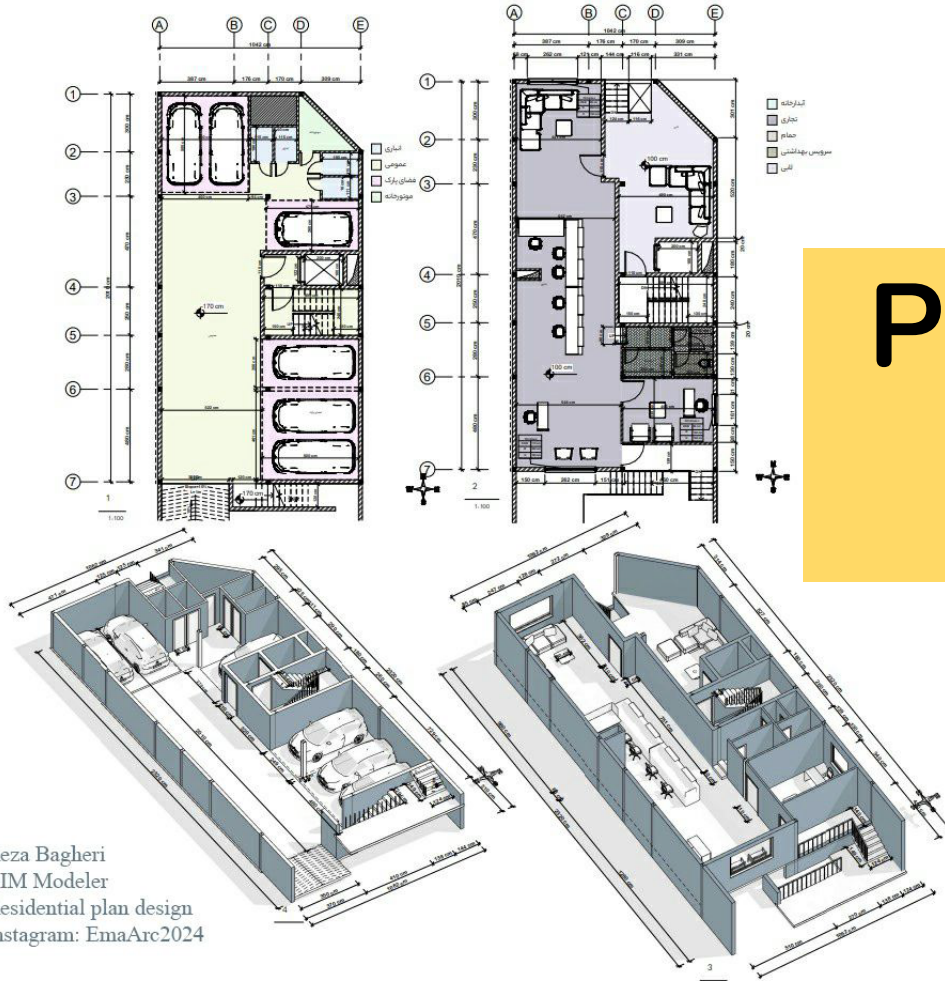
Bim Modeler: R.Bagheri
@EmaArc2024
Phase 2 - Facilities Inspection

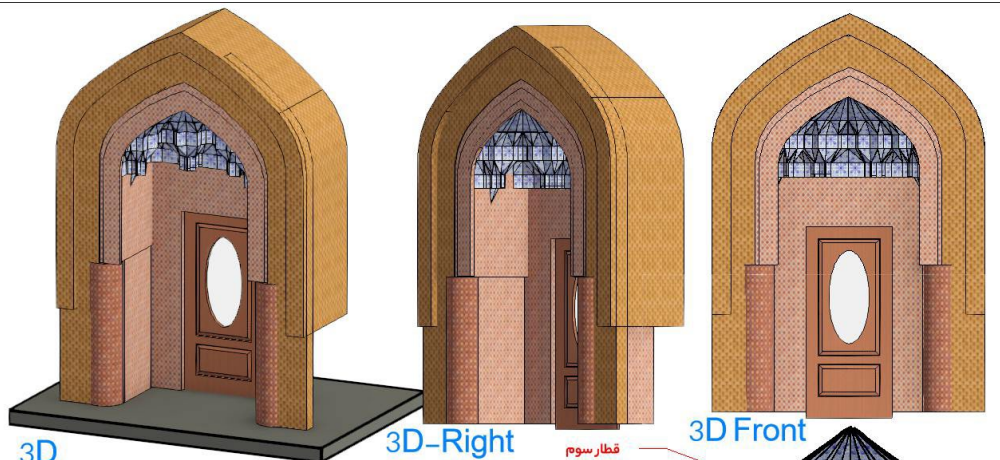
Modeling of Mechanical Room Systems in Revit MEP

Revit Modeling in MEP Discipline – Focus on Pump Layout and Piping Routes

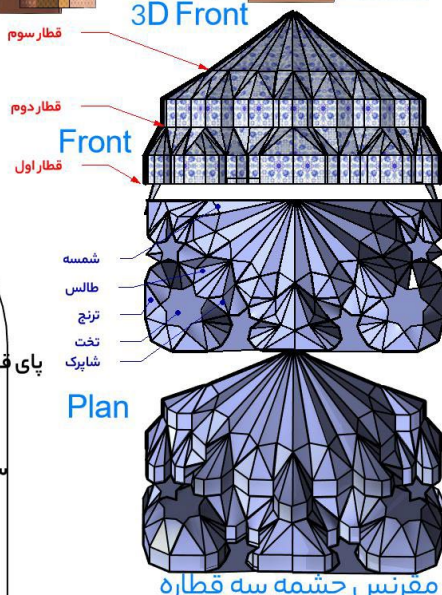
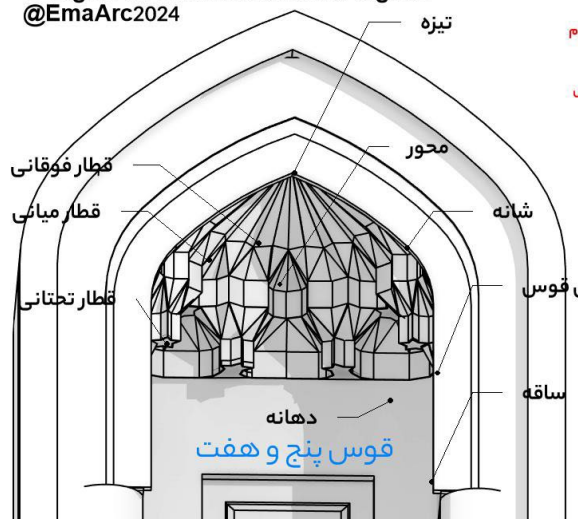
This project highlights the power of Revit modeling in the MEP discipline, enabling detailed and accurate 3D visualization of mechanical systems. The main objective was to design and arrange the layout of pumps and piping routes within the mechanical room. It was essential for these elements to be modeled in 3D, allowing supervisors and project stakeholders to clearly understand spatial coordination, avoid clashes, and ensure proper installation during execution.

Phase One Plan Design

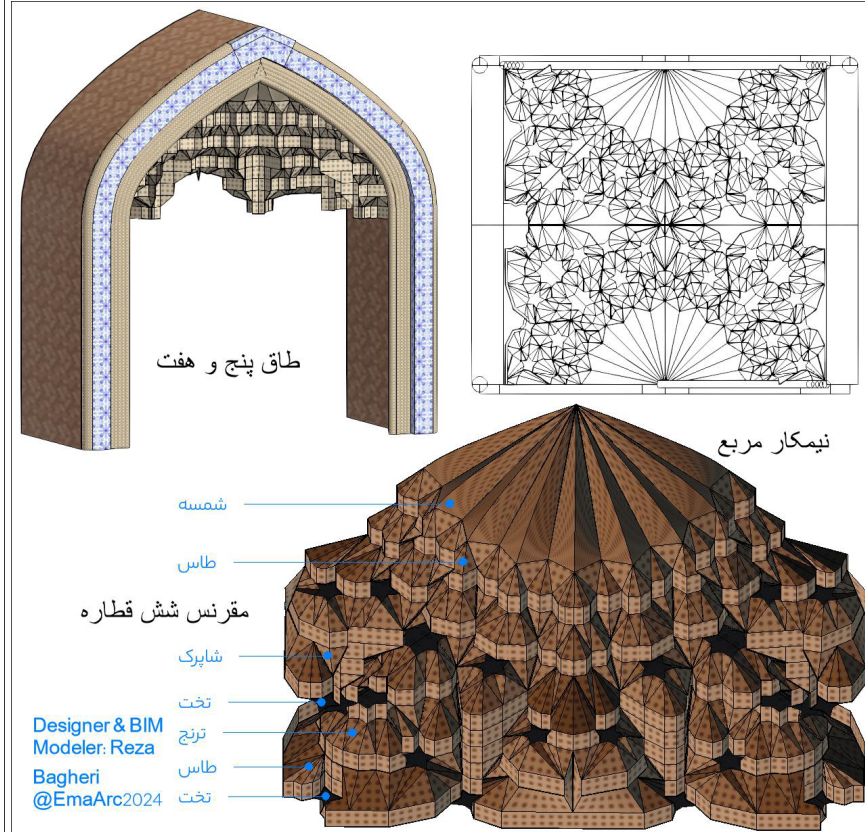




3D
Designer & BIM Modeler: Reza Bagheri
@EmaArc2024

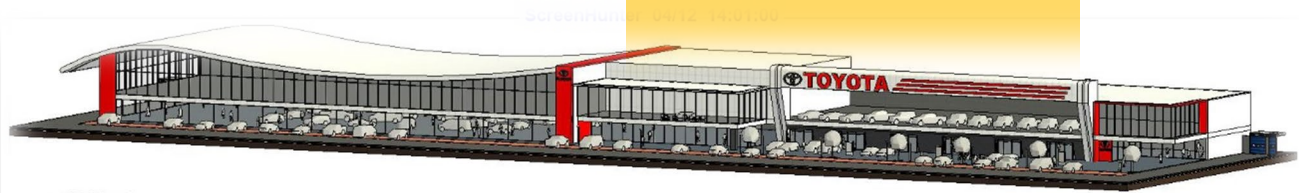


Traditional Iranian Architecture Meets Modern BIM
This entrance design blends modern digital modeling with classical Persian elements, including *Muqarnas* ornamentation and the iconic *panj-o-haft* pointed arch. Inspired by historical geometry and Islamic architecture, modeled entirely in BIM.

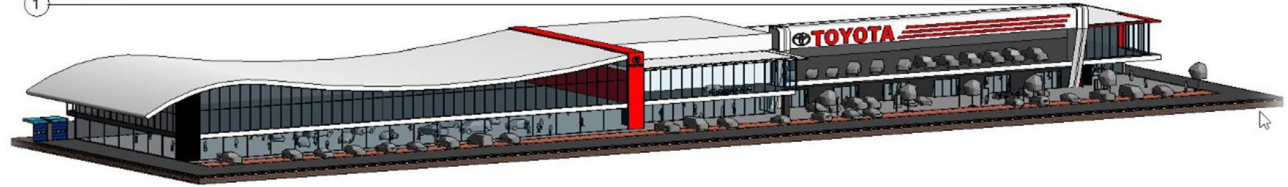


Designer & BIM
Modeler: Reza
Bagheri
@EmaArc2024

Initial design concept for Toyota dealership



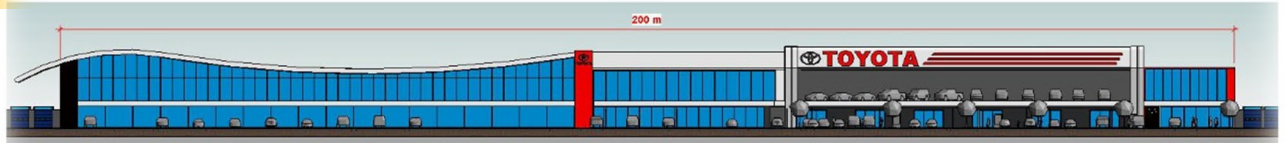
① 3D View1



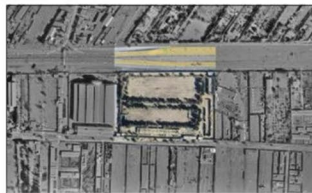
② 3D View2



④ 3D View3



③ Section 1
1: 320



Bathroom design



Material

Marble building stone



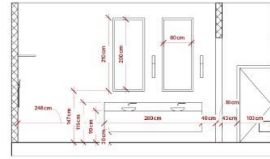
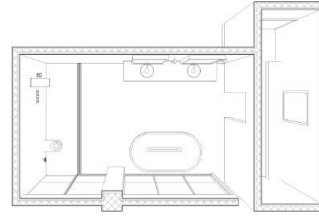
LOD250

Phase 2 Architecture



Concept

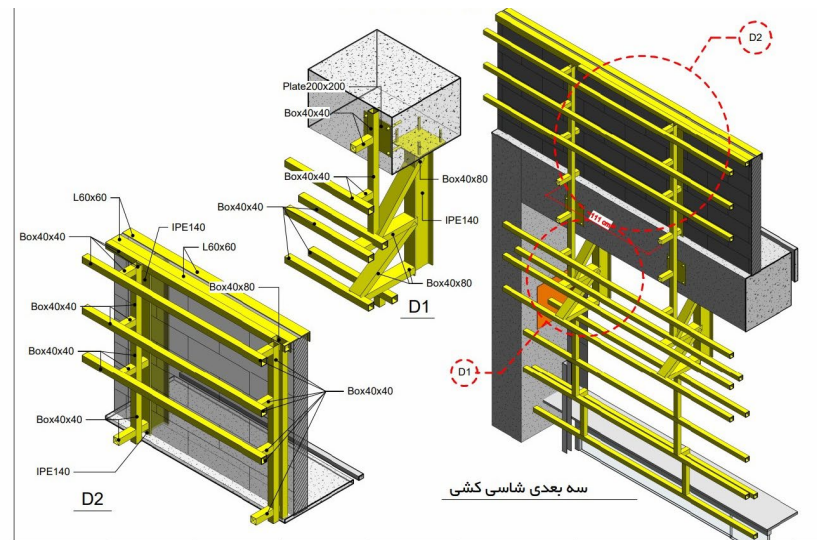
The bathhouse concept combines a forest view, golden light, and black stone, creating a serene and elegant space that connects nature with design.



FACADES

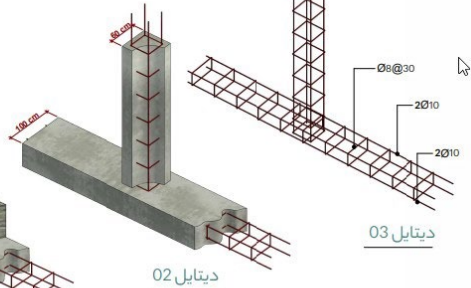
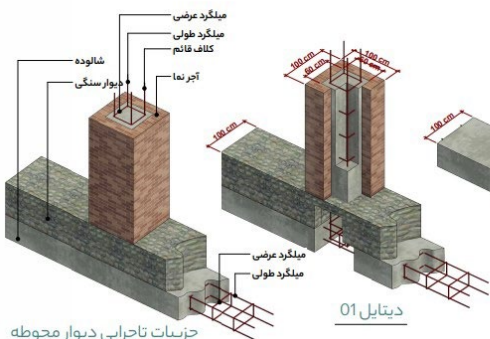
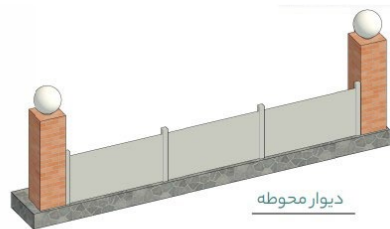


Facade execution details

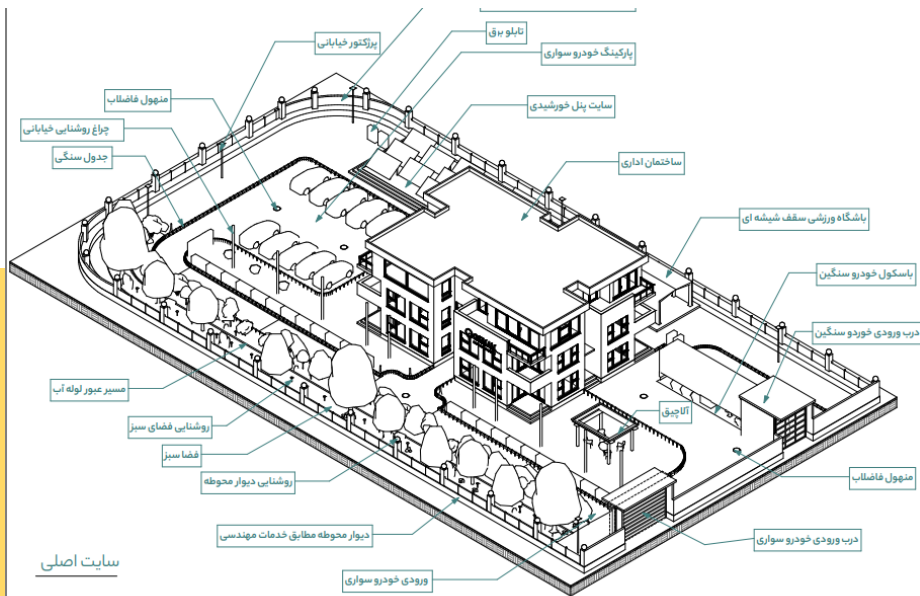


Commercial view of the entrance to
Alandasht Metro Station in Mashhad

Conceptual landscaping design with
courtyard wall details

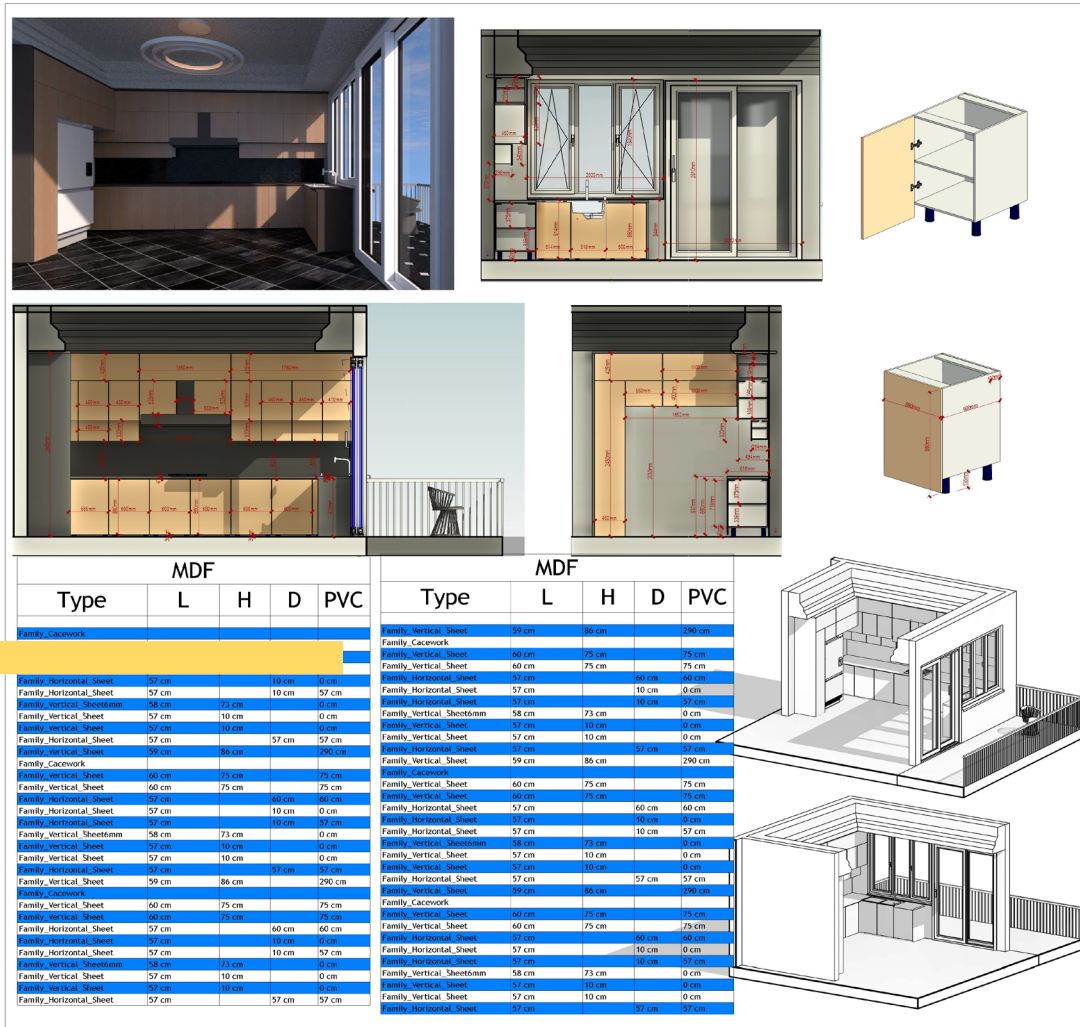


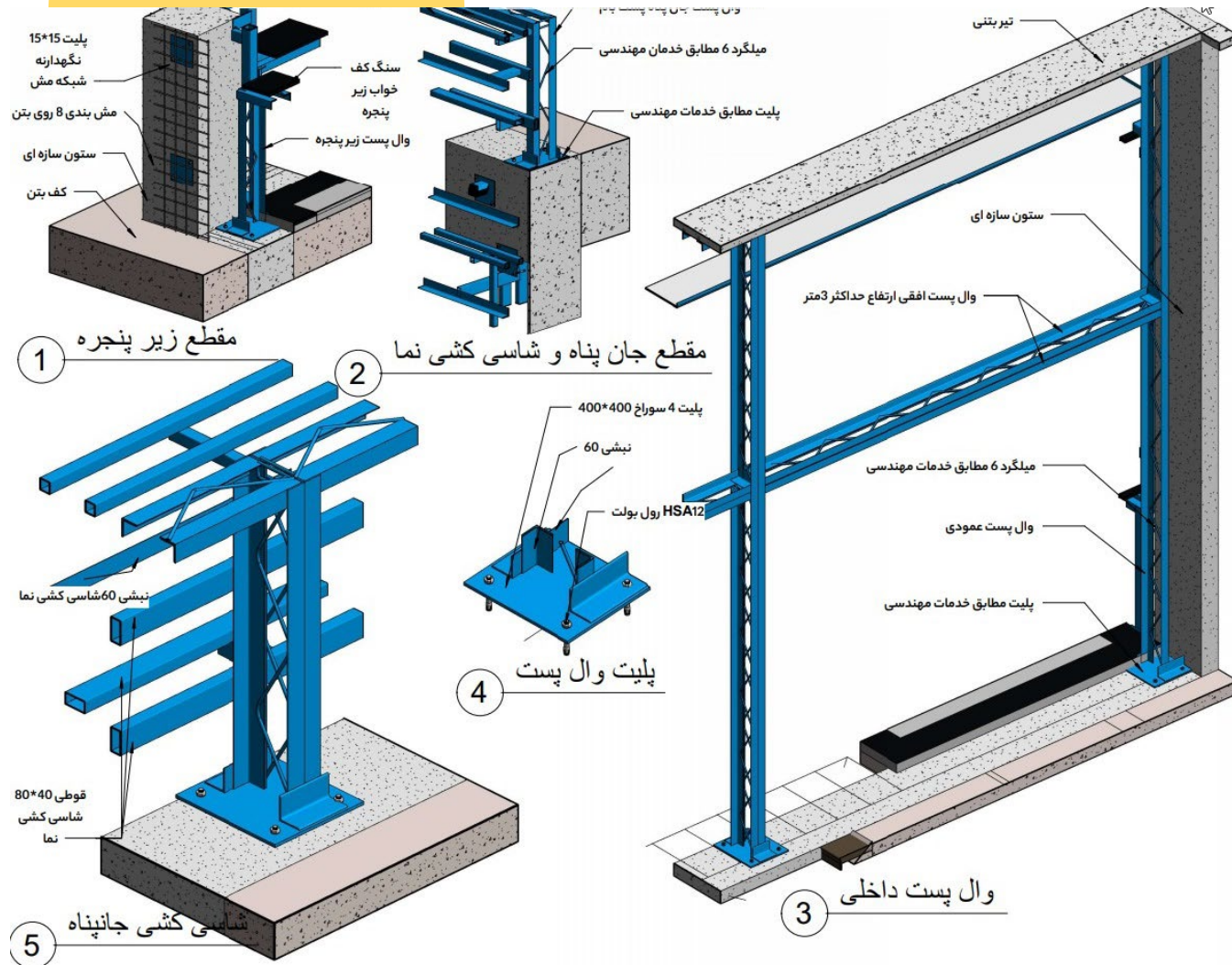
03 دیتایل



Kitchen design

In this plan, an attempt has been made to design the cabins with standard dimensions and sizes and to prevent waste of materials.

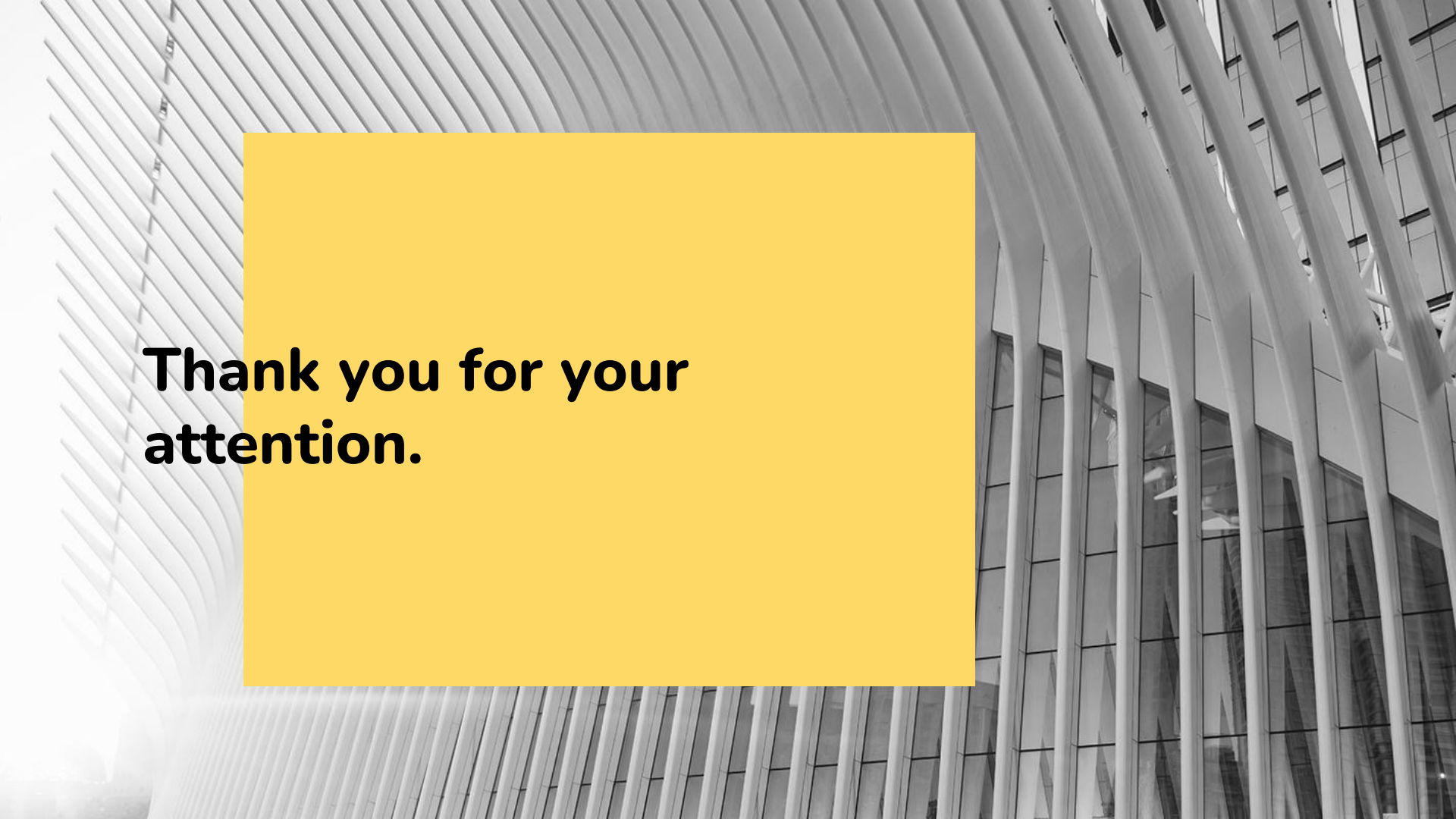




Wall Post

Implementation details

Modeling was done by the design engineer according to the technical specifications.



**Thank you for your
attention.**



CONTACT



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