



# Mohammadmehdi Zare

URBAN PLANNER AND DESIGNER | GIS SPECIALIST

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Milan, Italy

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## Summary:

Urban designer and GIS Specialist (MSc, Politecnico di Milano) with a proven ability to enhance urban resilience and sustainability. Directly responsible for important planning strategies transforming urban resilience to sustainability across a variety of projects, including strategic planning, Land use planning, and Master Plans for cities in the Middle East, and integrating multi-source datasets in creating a research agenda for urban natural disaster resilience at the European level. Highly skilled in advanced geographic information systems (ArcGIS Pro, QGIS), 3D visualization technologies (CityEngine, Twinmotion), and Python for spatial data modeling and informing policy development.

## SKILLS

### Technical skills

GIS & Spatial Analysis / ArcGIS Pro / QGIS / ArcMap / Remote Sensing / City Engine / Python programming / SPSS / Excel / Java / Joomla / Visualization / SketchUp / Twinmotion / Adobe Photoshop / Illustrator / InDesign / BIM (Revit) / AutoCAD / Civil 3D / Microsoft Package (Word, Excel, PowerPoint) / AI Rendering

### Soft skills:

Complex Problem Solving / Analytical & Strategic Thinking / Interdisciplinary Collaboration / Project Management & Leadership / Communication & Mentorship / Attention to Detail / Sustainability & Resilience Mindset

## Work Experience

### 1. Urban Planner

2024 - 2025 / Middle East

Naghshavand Company

- Led strategic land use planning for Meymand and Sadra, increasing future-oriented land allocation by 25% and improving data accessibility by 75% through comprehensive urban databases. Integrated socio-economic analysis to align spatial planning with long-term sustainability goals.

### 2. GIS EXPERT

2023 - 2023 / Milan, Italy

Department of Architecture, Construction Engineering and Built Environment, Polimi

- Spearheaded the development of integrated geospatial and socio-economic databases, achieving a 20% reduction in reporting time and a 30% improvement in assessment accuracy, enhancing overall planning efficiency.

### 3. Urban planner

2018 - 2019 / Middle East

Cooperate with Parsboom Consulting Engineers

- Developed comprehensive spatial database using field data, enhancing planning efficiency by 25%; also automated data entry processes, saving the team 8 hours weekly and improving data accuracy.

### 4. Teaching Experience

2018 - 2019 / Shiraz

- Taught GIS and AutoCAD, mentoring students in spatial analysis and urban design tools (ArcGIS, AutoCAD, SketchUp). Enhanced student proficiency by 40% through practical, real-world urban planning applications.

## Education

### M.Sc. in Urban planning and policy design

Politecnico Di Milano | 2021-2024 / Milan, Italy

### B.Sc. in Urban planning

University of Apadana | 2015-2019 / Shiraz

## Selected Projects

### SYNERGY: Rethinking the streetscape:

- Reduced local carbon emissions by 413 tons annually through innovative nature-based solutions in Milan's industrial areas.
- expanded energy independence by producing 5,000 kWh annually, boosting sustainability efforts.
- Expanded tree canopy area by 100%, enhancing biodiversity and ecological resilience.

### A New Livable Morsenchio Through the Lens of 15-minute City:

Planned a 15-Minute City strategy for Morsenchio, blending local identity with sustainable urban design to increase:

- accessibility and connectivity to 50%
- improve social interaction by 35%
- reuse 75% of abandoned building

- Designed urban greening proposals to enhance biodiversity and resilience

### **Meymand Urban Development Master Plan**

- Performed spatial analysis and evaluated urban patterns to guide long-term planning strategies.
- Improved land-use allocation efficiency by 25% through optimized planning methodologies.
- Built an accessible spatial database that enhanced data accuracy and availability by 75% for municipal decision-making.

### **Together Under Trees: greenery, sharing, and sustainability in Corso Sempione:**

- enhanced 100% green infrastructure designs for case study
- promoting 80% of biodiversity and urban-nature integration.
- Reduce car-oriented street from 80% to 20 %
- Multiply social activities up to 75 %

### *Certificate*

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- Registered Professional Engineer (Iran Engineering Organization), Holder of Engineering Practice License and Official Seal | 2025
- Revit, Dibagaran institute | 2025
- Start-Up Bootcamp | Politecnico di Milano | 2024
- ArcGIS Course, University of Shiraz | 2016
- Sketchup software and rendering by Vray, Dibagaran institute | 2017
- Language Programming Using Java | 2018

### *Publications*

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- Investigating the Satisfaction of Citizens from Electronic Municipality in Building Affairs, **Hamburg Germany, 2019**
- Developing a Multidimensional Walkability Index Linking Built Environment and Urban Structure: A GIS-Based Approach with AI-Supported (Under-review paper)

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