

# Reza Mohebifard

## Curriculum Vitae

Department of Civil Engineering  
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## EDUCATION

- B.Sc. Civil Engineering, Department of Civil Engineering, Sharif University of Technology, Tehran, Iran, 2022
- Diploma Mathematics, National Organization for Development of Exceptional Talents, Kerman, Iran, 2017

## EXPERIENCES

- 2022 Research Assistant, Department of Civil Engineering, Sharif University of Technology, Tehran, Iran
- 2021 Internship, Sham-Koob Construction, and Consulting Firm, Kerman, Iran

## RESEARCH INTERESTS

Transportation Systems  
Machine Learning  
Data Analysis  
Agent-Based simulation  
Economics  
Risk Management  
Sustainability

## SELECTED PROJECTS

- 2021 Cost-optimization of a Transportation System for Five Dairy Corporations and their Three Milk Production Farms, Sharif University of Technology, Civil Engineering Department,

Tehran, Iran

- Finding the optimized routes for moving dairy products in a transportation network
- Formulating the problem and using CPLEX to solve the route optimization problem
- 2021 Scheduling and Resource Management for Road Construction, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
  - Designing and modeling a 10 km mountain route with Primavera P6
- 2022 Sustainable Magnetic Refrigerators, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
  - Sustainability analysis of magnetic refrigerators with respect to their dimensions
- 2018 Architectural Plan of a Residential Complex, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
  - Designing the architecture of a three-floor building with AutoCAD
- 2019 Spread of Contaminated Plumes in Laminar Flow, Sharif University of Technology, Fluids lab, Tehran, Iran
  - Dynamics and behavioral analysis of spreading plumes in two-layer fluids
- 2021 Cold In-place Recycling Pavement, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
  - Studying different features of cold in-place recycling pavement
- 2020 Infrastructures and Life-cycle Cost-benefit Analysis, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
  - Design and maintenance of infrastructures using Life-Cycle Cost-Benefit analysis with special emphasis on user's costs
- 2019 Spatial-Temporal Modeling of Qualitative Parameters and Trophic Status in Chghakhor Wetland, Sharif University of Technology, Civil Engineering Department, Tehran, Iran
  - Modeling wetlands and lakes pollution using pollution indices GIS-based deterministic tools and geostatistical techniques
- 2018 Business Plan for Smart Home Construction Company, Sharif University of Technology, Management and Economics Department, Tehran, Iran
  - Developing a business plan and model for Three-M construction company

## HONORS AND AWARDS

- 2017 Ranked top 0.1% among more than 146,000 participants in the Iran national university entrance exam
- 2015 Winner of Math Olympiad, Southeast division

## **SELECTED COURSES**

- 2022 Principles of Urban Infrastructure Sustainability, Sharif University of Technology, Tehran, Iran
- 2021 Systems Engineering, Sharif University of Technology, Tehran, Iran
- 2021 Game Theory, Sharif University of Technology, Management and Economics Department, Tehran, Iran
- 2021 Microeconomics, Sharif University of Technology, Management and Economics Department, Tehran, Iran
- 2020 Engineering Economics, Sharif University of Technology, Tehran, Iran
- 2017 Traffic Engineering, Sharif University of Technology, Tehran, Iran
- 2017 Python Programming, Sharif University of Technology, Tehran, Iran

## **COMPUTER SKILLS**

Applications ETABS, AutoCAD, Microsoft Office, CSI Safe, SAP200, Mathcad, Eureka

Programming Python, MATLAB, C++, Java, Stata

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

Production and Operations Management Society, 2022-present

American Society of Civil Engineers, 2022-present

## **LANGUAGES**

Farsi Native

English Full professional proficiency

GRE- score: 304 (Q: 162, V: 142)

TOEFL scheduled for 27/8/2022