

Rozhin Falahati

(She/Her)

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Education

Master of Science in Structural Engineering

SEP 2025 – Ongoing

University of Alberta, GPA: -

Bachelor of Science in Civil Engineering

SEP 2020 – JUN 2024

University of Tehran, GPA: 16.54/20 (3.5/4)

Diploma in Physics and Mathematics

SEP 2017- JUN 2020

Farzanegan 1 High School, Shiraz GPA: 19.69/20 (4/4)

- Affiliated with the National Organization for the Development of Exceptional Talents (NODET)

Honors and Awards

- Merit-based admission to the MSc program in Environmental Engineering at the University of Tehran, 2023.
- Ranked 16th in Civil Engineering Faculty of Tehran University among over 100 students, Iran, 2023
- Ranked 1367th in National University Entrance Exam among over 135,000 students, Iran, 2020

Research Interests

Sustainable Timber Construction

Green Building Design

Permanent Wood Foundations

Structural Health Monitoring

Languages

- **Persian:** Native
- **English:** IELTS Proficiency Test: band score **8** (L:**8.5** R:**8.5** W:**7** S:**7**)
- **German:** Beginner level (A1)

Work History

GRAF

MAY 2025 – Current

- Research Assistant under the supervision of Dr. Hossein Daneshvar at the University of Alberta

Teaching Assistant

Sep2024 – FEB 2025

- Teaching Assistant for Building Information Modelling Course taught by Dr. Hosein Taghaddos at the University of Tehran

Survey CAD Drafting

2021 – 2024

- Providing land survey drafting services to B.A.S.F. DRAFTING SERVICES located in California
- Proficiently transformed raw land survey data, including field measurements and surveyor's points, into accurate and detailed CAD drawings and plans.
- Produced a wide range of survey-related documents, including land survey maps, topographic maps, site plans, boundary surveys.

Freelance Content Writer

SEP 2024 – JAN2024

- Created engaging and well-researched English blogs and articles.
- Specialized in topics such as digital marketing, Forex, etc.

Internship

JUL 2023 – SEP 2023

- Interned at [Pajooresh Consulting Engineers](#) for 2 months
- Acquired knowledge of various subway station construction techniques, with a specific focus on the cut and cover method.

Projects

- **Structural Design Project: Residential Steel Structure.** This project involves designing a steel structure for a residential building using **ETABS** and **Safe**. It includes conceptualization, structural analysis, and detailed design of components like beams, columns, and connections.

FEB 2024–JUN 2024
- **Structural Design Project: 6-Story Residential Concrete Building.** Designed a 6-story residential building, applying ACI 381-2019 code. Implemented a lateral load-resisting system, conducted a thorough structural analysis using **ETABS** and **Safe**, **University of Tehran**

SEP 2023–FEB 2024
- **Cost Estimation for a 3-Story Building Construction Project.** Conducted a comprehensive quantity surveying project to estimate the total cost of constructing a 3-story building. project involved cost analysis, material quantity calculations, and budget estimation, **University of Tehran**

FEB 2023–JUN 2023
- **Truss Formation, Load Analysis, and Deformation Calculation with MATLAB.** Developed a truss structure based on provided input data, conducted load analysis, and calculated its deformation using the stiffness method with **MATLAB** software. Employed matrix calculations to ensure accurate results, **University of Tehran**

SEP 2022–JAN 2023

- **Structural Analysis and Weight Optimization of a Bicycle Frame using MATLAB.** Performed a static analysis of a bicycle frame, solving equilibrium equations to assess its structural stability. Additionally, optimized the frame's weight using **MATLAB** software for enhanced performance, **University of Tehran**

SEP 2021–JAN 2022

Skills

- **Engineering:** ETABS, ABAQUS, AutoCAD (2D & 3D), Civil 3D, AutoCAD (Land Development), Navisworks Manage
- **Programming:** Html, CSS, MATLAB, Mathematica, Python
- **Software:** Microsoft Office (Excel, Word, PowerPoint, Access)
- **Soft Skills:** Demonstrated leadership skills and a team player, Problem Solving Skills, and creativity and passion for new skills, enjoy learning new stuffs

Voluntary activities

- **Volunteered for 7th SGSC Conference Treasury and Activity Committee which will be held on Feb 2025.**
- **[Review Article Titled "Minimizing Embodied Energy in Steel Buildings: A Life Cycle Approach for Sustainable Design"](#)**

This review article is my first scientific article. It explores how life cycle assessment (LCA) can inform steel building design to minimize embodied energy and environmental impact throughout a building's lifespan. It highlights key design strategies for structural components, secondary systems, and energy use.

- **Review and Reading Workshop of Structural Plan in Civil Engineering.**
participation in a 9-hour course on review and reading of structural plan in civil engineering
- **Executive Team Member, National Conference on Water Quality Management and Water Consumption.**
Served as a key member of the executive team for the National Conference on Water Quality Management and Water Consumption Management, held at the University of Tehran, Faculty of Engineering, under the guidance of Dr. Masoud Tabesh.

References

- Dr. Hossein Daneshvar, Assistant Professor at School of Civil and Environmental Engineering, University of Alberta
Relationship: Supervisor
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