

MEHDI TORBAT ESFAHANI

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SUMMARY

Ph.D. student in Civil Engineering, concentration on construction science and management, graduated with a bachelor's degree in civil engineering, also graduated with a master's degree in engineering management from Michigan Technological University, focused on research projects about automation in construction and construction safety, authored and published three Journal articles and three conference papers, having +8 years of civil engineering construction management experiences.

EDUCATION AND PROFESSIONAL DEVELOPMENT

2023-2026: DOCTOR OF PHILOSOPHY– CIVIL ENGINEERING–CONSTRUCTION MANAGEMENT, University of Texas at San Antonio, San Antonio, Texas, USA

Concentration on Construction Science & Management

Supervisor: Dr. Ibukun Awolusi

GPA: 3.81/4, Anticipated Graduation: 12/2027

2021 to 2023: MASTER OF ENGINEERING MANAGEMENT, Michigan Technological University, Houghton, MI

Academic Projects: Implemented a Financial Statement Analysis and Stock Valuation on Construction and Technological Companies

Developed an information systems product for a real-world problem by incorporating Agile Management Methodology

GPA: 3.86/4

2009 to 2012: MASTER OF CIVIL ENGINEERING, Tafresh University, Tafresh, Iran

Academic Projects: Numerical and Experimental Analysis of Multilayer Accordion Metallic Damper

GPA: 3.07/4

2004 to 2008: BACHELOR OF SCIENCE – CIVIL ENGINEERING, Islamic Azad University, Najafabad Branch, Esfahan, Iran

Academic Projects: Analyzed and Designed Concrete and Steel Structures with 8 Stories and Drafted the Drawings.

Determined the Roadway on the Topographic Map, Designed Transverse and Longitudinal Profiles, Vertical and Horizontal Arcs.

GPA: 3.01/4

CERTIFICATIONS: OSHA 30, Project Management Professional (PMP) (in progress)

LICENSES: Supervision and Inspection License in Civil Engineering – Iran

TECHNOLOGY: MS Project, AutoCAD, Revit Structure, Autodesk Civil3D, MS Office

MEMBERSHIP: American Society of Safety Professionals, American Society of Civil Engineers (Construction Institute and Utility Engineering and Surveying Institute), lifetime membership of Beta-Gama-Sigma

ACADEMIC INVOLVEMENT: Participated in ASSP 2023 Conference, UESI Pipeline 2023 Conference, and 7th Annual South Central Regional Chapter Trenchless Technology Conference; participated and served as note-taker in UESI 2023 Symposium.

RESEARCH INTERESTS

Construction Safety • Automation in Construction • Heat Stress Prevention • Leveraging Technologies in Construction Safety and Training

WORK HISTORY

January 2023 to Present: University of Texas at San Antonio, San Antonio, TX

GRADUATE RESEARCH ASSISTANT

Assisting in research projects concentrating on construction safety, leveraging technologies in the health and well-being of construction workers. Supporting in executing heat stress prevention training for construction employees. Developing hypotheses, gathering data, conducting analysis, drafting, revising, and submitting manuscripts.

September 2022 to December 2022: MICHIGAN TECHNOLOGICAL UNIVERSITY • Houghton, MI

TEACHING INSTRUCTOR

Taught Construction Project Management courses to ten civil engineering and construction science and management students at the Civil Engineering Department.

May 2022 to December 2022: MICHIGAN TECHNOLOGICAL UNIVERSITY • Houghton, MI

GRADUATE RESEARCH ASSISTANT

Assisted in a research project concentrating on Etsy as the entrepreneurial business source, gathering and consorting data.

2015 to 2021: SABOK SAZE ESPADAN CO. ▪ Esfahan, Iran

CIVIL ENGINEER

Actively supervised all phases of construction processes for civil projects to ensure completion within contract schedules and engineering standards to achieve client satisfaction and maximum profits.

- Supervised the performance and tasks of 10+ staff on the operations team.
- Facilitated project plans and labor hours, estimating processes and reducing critical path time of projects.
- Carried out quality control inspections, increasing the number of quality control reports for the operations team.
- Maximized profitability through effective contract and liability development, including monitoring project budgets and schedules and refining the cost efficiency of construction processes.
- Designed, calculated, and sketched sheets and final working construction drawings.
- Provided services on special construction projects for private clients involving luxury structures with two to three floors and residential units.

2012 to 2013: TARH ANDISH POUYAN Co. ▪ Esfahan, Iran

ASSISTANT CONSTRUCTION PROJECT MANAGER

Consistently clarified tasks and identified risks for a project construction team, engaging in preconstruction, construction processes, and closeout services.

- Fulfilled a 10% growth in risk reduction of financial and technical consequences of loss.
- Developed bid instructions with plans and details for subcontractors, achieving a significant enhancement in operational quality.
- Produced 25 to 30 monthly reports of detailed project schedules, generating over 100 monthly emails to stakeholders.
- Completed all permit forms after design meetings, working with the client, project manager, and design team.
- Influenced the development of project scopes, schedules, milestones, deliverables, and goals.

PUBLICATIONS

Esfahani, M. T., Awolusi, I., & Hatipkarasulu, Y. (2024). Effects of Heat Stress Prevention Training on the Knowledge of Construction Students. *Engineering, Project, and Production Management Journal*, 14(2), 0018. DOI: [10.32738/JEPPM-2024-0018](https://doi.org/10.32738/JEPPM-2024-0018)

Torbat.E, M., Awolusi, I., & Nnaji, C. (2024, March). Using Virtual Reality to Enhance Construction Workers' Response to Alerts from Wearable Sensing Devices: A Review. Paper presented at Construction Research Congress 2024.

M.Torbat.E, M. Buche, (2022) "Using Virtual Reality in Construction Education by Incorporating BIM," The 17th Annual MWAIS Conference, Omaha, Nebraska, United States.

M.Torbat.E, F.Nateghi.A, (2015) "Improved Behavior of Accordion Metallic Dampers Affected the Increasing Number of Layers," *International Journal of Engineering*, Tehran, Iran

M.Torbat.E, F.Nateghi.A, (2014) "Experimental and Analytical Behavior of Accordion Metallic Dampers by Increasing the Number of Layers," *Sharif Civil Engineering Journal*, Tehran, Iran

M.Torbat.E, E.Ezadi.Z, F.Nateghi.A, M.Motamedi (2012) "Experimental and Analytical Study of Multilayer Accordion Metallic Dampers," The Fifteenth World Conference on Earthquake Engineering, Lisbon, Portugal.

TEACHING EXPERIENCES

September 2022 to December 2022: MICHIGAN TECHNOLOGICAL UNIVERSITY ▪ Houghton, MI

TEACHING INSTRUCTOR

Taught Construction Project Management courses to ten civil engineering and construction science and management students at the Civil Engineering Department.

September 2013 to May 2014: Najafabad INSTITUTE OF HIGHER EDUCATION ▪ Esfahan, Iran

TEACHING INSTRUCTOR

Taught structural analysis, concrete technology, and project estimation courses.

September 2010 to January 2011: TAFRESH UNIVERSITY ▪ Tafresh, Iran

TEACHING Assistant

Supported undergraduate students in structural analysis courses by solving textbook questions and predesigned problems.

LEADERSHIP AND VOLUNTEERING EXPERIENCE

2017: CONSTRUCTION ENGINEERING ORGANIZATION ▪ Iran – Designed 30+ Structures for the Kermanshah Earthquake-Stricken Area.

2012: CIVIL ENGINEERING ASSOCIATION ▪ Iran – Tutored 100+ Graduated Students on the Construction Processes in a Field Trip view.

PEER REVIEWS

JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT – 4 papers

JOURNAL OF MANAGEMENT IN ENGINEERING – 3 papers

JOURNAL OF BUILDING ENGINEERING – 1 paper

INTERNATIONAL JOURNAL OF OCCUPATIONAL SAFETY AND ERGONOMICS – 1 paper

SEVENTEENTH MIDWEST ASSOCIATION FOR INFORMATION SYSTEMS CONFERENCE – 3 papers