

MEHDI KHAZAELI, PH.D., P.E., PMP.

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EDUCATION

Doctor of Philosophy in Engineering Science with concentration in Information Technology, 2013

Louisiana State University, Baton Rouge, Louisiana, US

Master of Science in Product Design and Management, 2009

University of Liverpool, Liverpool, United Kingdom

Bachelor of Science in Industrial Engineering, 2005

Isfahan University of Technology, Isfahan, Iran

PROFESSIONAL EXPERIENCE

Assistant Provost for Research, Innovation & Sponsored Programs

University of the Pacific, Stockton, CA

2025-Present

- Lead the university's Office of Research, Innovation and Sponsored Programs (ORSP); serve as Institutional Official including IRB, IACUC, and USDA.
- Supervise 7 direct faculty/staff positions supporting sponsored research, innovation, and faculty development.
- Increased proposal submissions in FY25 to 115 submissions totaling \$23M funded grants and contracts.
- Updated HERD survey reporting to position Pacific for Carnegie R2 classification.
- Strengthen shared governance and faculty feedback on research policy; build Pacific's role as a regional translation research hub by convening state, county, and city policy makers and collaborating with national labs.

Assistant Dean, Innovation and Professional Development

School of Engineering and Computer Science, University of the Pacific, Stockton, CA

2023-Present

Duties include:

- Co-Lead CO-OP, engineering career services, and sponsored project initiatives in SOECS.
- Created the Corporate Affiliate Program connecting industry partners with faculty and students.
- Manage school-level research funding and faculty development; identify and match faculty to grant opportunities.
- Design curricular and co-curricular experiential learning activities.
- Establish a sponsored research and senior projects program.
- Provide research support and identify grant opportunities for faculty.
- Lead the strategic working group on industry and alumni partnerships.
- Create partnerships with employers to offer internships and CO-OP opportunities for Engineering and Computer Science students.
- Develop funding opportunities for students through sponsored research, internships, and CO-OP programs.

- Meet with Career Services biweekly to collaborate on SOECS career service initiatives, including strategies for working with neurodiverse students and creating e-portfolios.
- Chaired 3 TT faculty search.

Director, Technological Innovation and Entrepreneurship

School of Engineering and Computer Science, University of the Pacific, Stockton, CA

2018-2023

Duties included:

- Managed all aspects of Innovation Spaces in the School of Engineering and Computer Science, and the School of Business.
- Advised university faculty and technical staff to support and promote innovation and entrepreneurial activities for both graduate and undergraduate students.
- Allocated resources and budgets, analyzed statistics, and generated reports on innovation initiatives.
- Planned and coordinated curricular and extracurricular activities that spanned schools or campuses.
- Collaborated with the development team to identify equipment and tooling, and to raise funds for the makerspace facility.
- Created curricular and extracurricular activities that connected multiple schools and campuses.
- Developed the organizational structure and established links with key external stakeholders.
- Developed metrics to assess the success of Innovation and Entrepreneurship initiatives.

Interim Director, Engineering Management Program

School of Engineering and Computer Science, University of the Pacific, Stockton, CA

2022-2023

Duties include:

- Led the program and managed the annual budget.
- Provided leadership for over 45 undergraduate and graduate Engineering Management students.
- Recruited and mentored students in the Engineering Management program.

Chair, Pacific Entrepreneurship Network

University of the Pacific, Stockton, CA

2018-2022

Duties include:

- Created curricular and extracurricular activities that spanned across schools and campuses.
- Developed the organizational structure and established links with key external stakeholders.
- Developed metrics to assess the success of Innovation and Entrepreneurship initiatives.
- Developed and managed short- and long-term goals related to fostering an Entrepreneurial Mindset to increase retention and student satisfaction.

Assistant Program Director, CA Civic Action Service-Learning program

University of the Pacific, Stockton, CA

2020

Duties include:

- Developed required data collection and performance measurement documents and process
- Developed service-learning templates (module, syllabus, assignment) for use by faculty
- Created a minor of Service learning at University of the Pacific

Professor, Engineering Management

School of Engineering and Computer Science, University of the Pacific, Stockton, CA

2025-Present

Associate Professor, Engineering Management

School of Engineering and Computer Science, University of the Pacific, Stockton, CA

2020-2025

I taught data analytics, project management, building information modeling, design, and innovation to both undergraduate and graduate students. All of my classes incorporate significant experiential learning components, where students collaborate on real-world semester projects. My focus is to teach students how the concepts learned in the classroom apply to real-world work, while fostering their curiosity about our ever-changing world.

Duties include:

- Developed and deliver wide variety of courses in data analytics, innovation and entrepreneurship, and project management to undergraduate and graduate students.
- Assist in curriculum planning, student orientations, open houses, and provided student advising and support.
- Prepared course materials, learning outcomes, and documentation for ABET accreditation.
- Proposed a new major in Product Design and Entrepreneurship.
- Developed a new General Education class - Engineering Design Thinking.
- Participated in the IDEA workshop during summer 2024.
- Taught at the Summer High School Institute in 2022, 2023, and 2024, and participated in all related activities, including recruitment, advising, and meeting with parents.
- Participate in Engineering Education Think Tank meetings.
- Organized Annual Pacific Innovation and Entrepreneurship Summit 2018-2024

Assistant Professor, Engineering Management

School of Engineering and Computer Science, University of the Pacific, Stockton, CA

2014-2020

Duties include:

- Developed and delivered courses in Project Management, Data Analytics, Sports Analytics, Introduction to Big Data, Project Decision Making, Additive Manufacturing, Design and Innovation, Building Information Modeling, and Applied Data Analytics.
- Established a new Makerspace equipped with state-of-the-art prototyping tools.
- Developed a minor in Technological Innovation and Entrepreneurship.

Faulty Resident

Autodesk Technology Center

2021-2022

During my residency at Autodesk, I created a computer vision-based Inspection system using BIM and Robotics. This project was an intersection of computer vision, robotics and additive manufacturing for bridge inspection.

Database Admin/Software Architect

Center of Business and Information Technology, University of Louisiana Lafayette

2013-2014

Duties include:

- Managed large-scale project initiatives involving the transition of programs to new platforms and the merger of disparate systems from client companies.
- Analyzed user specifications and requirements; coded, tested, debugged, deployed, trained, and documented projects in the healthcare industry.
- Created the “Big Data for Professionals” certificate at the University of Louisiana at Lafayette.
- Drafted proposals and grants on healthcare big data analytics.

Vice President of Operations

Bana Construction Company, Sary, Mazandaran

2006-2008

Duties include:

- Oversaw and directed daily operations and decisions across all aspects of project performance, including constructability reviews, estimating, scheduling, project procurement, and controls through completion.
- Contributed to the development and implementation of the organization's strategic goals and objectives.
- Managed the execution of 5 commercial and residential construction projects from initiation to completion.
- Developed and managed project budgets exceeding \$1M.
- Supervised the day-to-day operations of 30 employees.
- Hired and trained over 10 new employees.
- Implemented and maintained quality control standards to ensure projects met or exceeded customer expectations.

Project Manager

Bana Construction Company, Sary, Mazandaran

2003-2006

Duties include:

- Worked on constructability, timing, costs, and quality for over 10 projects.
- Reviewed performance against operating plans and standards, provided reports to contractors, and approved change orders.
- Served as the primary point of contact between the construction team, the company, and the client.

PROFESSIONAL SERVICE AND LEADERSHIP ROLES

- **Director**, Institute of Industrial and System Engineering (IISE) Construction division, 2018-2022;
- **President**, Institute of Industrial and System Engineering (IISE) Construction division, 2016-2018;
- **Director**, Institute of Industrial Engineering (IIE) Computer and Information System division, 2014 –2016;
- **Track co-chair**, AI and Cyber Security Special Track at the 26th International FLAIRS Conference;

- **Track Chair**, IISE Annual Conference Construction Engineering and Management Track Chair, 2016,2017,2021.

RESEARCH AND CONSULTING ACTIVITIES

Consultant

2014 - Current

Consulted with and/or taught seminars to over 100 clients in R&D-based industries, research organizations and educational institutions focusing on construction management and generative AI, and Technological Innovation and Entrepreneurship.

Halo

2024- Current

Serving as a leader to connect the University of the Pacific with Halo, an NSF-supported initiative that provides access to funding and support from top industry R&D teams to accelerate innovation. Our application was accepted, and we are currently creating an inventory of faculty expertise, academic programs, physical spaces, and equipment related to Materials Science.

Beam Circular

2024- Current

Collaboration with Thomas Pogue, I am leading the partnership with BEAM Circular to support the development of the Regional Innovation NSF Engine Application and assist in advancing a tri-county proposal for the California Jobs First Fund.

Professional Development Course for Clean Tech Entrepreneurs and Startup Companies

2019-2020

In collaboration with CleanStart LLC. Delivered an “entrepreneurship bootcamp” for founders and early employees of clean technology companies in the Northern Central Valley of California. Attendees were introduced to a set of essential knowledge and skills required to develop their ventures, got individualized mentoring and benefited from networking opportunities to connect with other companies and domain experts, had the opportunities to publicize their companies and ideas.

Tiny Homes as an Affordable Housing Strategy for Stockton low-income residents

Fall 2022

In collaboration with Scurfield LLC. This project focuses on feasibility analysis and design of tiny home communities that provide shelter, security, and resources for unhoused people and families. In this project we studied the development of tiny house villages as an increasingly attractive method of addressing homelessness in that they have the potential to offer a more permanent solution to homelessness than the temporary approaches of soup kitchens and overnight shelters. The goal of this project is to implement cost-effective ways of addressing the needs of unhoused families.

Measurements of tennis impact parameters

Fall 2023 - Present

In collaboration with Trackman golf technology. This project involves motion analysis systems for configuring biomechanical analysis, consequently the racket and ball to determine the outcome of a shot.

Recommendation system for soccer coaches

Spring 2023 - Present

In collaboration with the Athletics Department and Business Analytics faculty. This project involves the design of a recommendation system for training programs to recommend drills that optimize the intensity, heart rate based on duration, focus and size of the players.

Design and Prototype a Bowling Brace

Fall 2023-Summer 2024

In collaboration with VISE Inserts Inc., designed and prototyped a lightweight, low-profile, custom user-specific brace for bowling.

Analyzing the Golf shot using AI

Spring 2024 – Present

In collaboration with ESB faculty, we developed a model to predict the outcome of an approach shot given a specific scenario. The player inputs their chosen club, shot type, and target, and the model predicts whether the result will be a birdie opportunity, par zone, bogey zone, or double bogey or worse.

Analyzing Soccer Training Sessions to Predict Player Match Performance

Fall 2021

In collaboration with the Athletics Department and Business Analytics faculty. This project involves using machine learning and predictive analysis to predict the soccer player match performance using the training session data. Volume and intensity along with other training session attributes are collected from soccer players in the training sessions leading to a match. The goal of this research is to predict match performance of players and optimize match preparation for future games.

Crack Blunting and Self-Healing Mechanisms in Pickleball

Fall 2020

In collaboration with a start-up company. This project involved evaluation of self-healing materials to fill the cracks of the pickleballs.

An Analysis of the Water Polo Game Outcome: Predict and Guide Gameplay Strategies

Fall 2019

In collaboration with the Athletics Department and Business Analytics faculty. This project focuses on using Monte Carlo simulation and deep learning for predicting and guiding water polo gameplay.

Optimizing the Best Play in Basketball using Deep Learning

Fall 2019

In collaboration with faculty from Eberhardt School of Business. This project involves the design of an applied deep learning methodology to optimize the best offensive play in a basketball game scenario for a given set of features.

Real-time Win Expectancy in Water Polo Game

Fall 2016

In collaboration with faculty from Eberhardt School of Business. This project focuses on determining the probability of a win at any point in a water polo game based on the time series analysis.

Measure the performance and risk of injury of athletes using the SpartaTrac force plate

Fall 2015

In collaboration with a start-up company. The project focuses on analyzing the effect of specific training programs on individual force profiles and athletic performance. The goal of this analysis was to provide a summary of the different effects that exercise plans have on the movement signature variables. It identified the important factors and estimated how effective each of these variables are in improving athletic performance.

Ticket Pricing in Sport Industry

Fall 2014

In collaboration with Sacramento Kings. This project involved developing pricing strategies that better reflect market demand for sport, including dynamic, variable and granular ticketing models, team and individual performance factors, ticket-related factors, and time-related factors.

Gesture based Human Computer Interaction for Athletic Training

Fall 2013

In collaboration with a start-up company. The project focuses on implementing real-time 3D scans of a scene to aid in the ergonomics analysis in a work environment. Kinect sensors have been used to explore the use of depth cameras in several analysis contexts including body segment tracking, whole-body person tracking and 3D scanning.

HONORS AND CERTIFICATIONS

- Project Management Professional (PMP): 2023 / 3419716;
- Professional Engineer (P.E.): 2017 / Industrial / California / 4388;
- School of Engineering and Computer Science Outstanding Faculty Award (2018);
- Industrial Engineering Department Outstanding Faculty of the Year (2013);
- Outstanding innovation product in product design and development project expo (2009);
- Alpha Pi MU (Industrial Engineering Honor Society) (2011);
- Certified Internal Auditor: ISO 9001:2000 (DNV) (2005).

EXTERNAL GRANTS IN PROGRESS

- Khazaeli, M., Dziallas, S., & Gulati, S. (2024). S-STEM: Cultivating Success: Career Development and Student Retention through Scholarships and Academic-Industry Partnerships. Pending grant application submitted to the National Science Foundation, Division of Undergraduate Education. Grant Application Number: 2424926. Awarded; Amount: \$797,174.
- Pogue, T., Edwalds-Gilbert, G., Khazaeli, M. (2024). *Deepening University of Pacific's Role in the Northern California Megaregion's Innovation Ecosystem*. Funded; Amount: \$400,000.

- Khazaeli, M., Pogue, T., Gale, L., and Orwin, E. Sustainability Accelerator in the North San Joaquin Valley: P-A-3NSV. Proposal to the U.S. Economic Development Administration (EDA) "Build to Scale" Grant Initiative, Proposal No. 25-0044, \$4,997,396.
- Khazaeli, M., Gulati, S., El Kari, C., Head, S., & Ojcius, D. (2024). *Supporting Undergraduate Institutions in Technology and Entrepreneurship Development (SUITED) Workshop*. Application approved and funded by the National Science Foundation (Award #2225762). Hosted by Union College, November 1-2, 2024, Schenectady, NY.
- Partnerships with Halo (NSF EMERGE) and BEAM Circular/CBIO to connect faculty with global R&D sponsors and advance circular bioeconomy initiatives.

REFEREED JOURNAL PUBLICATIONS

- Khazaeli, M., & Javadpour, L. (2024). Golf club selection with AI-based game planning. *Entropy*, 26(9), 800. <https://doi.org/10.3390/e26090800>
- Javadpour, L., Blakeeslee, J., Khazaeli, M., Schroeder, P., (2022) Optimizing the Best Play in Basketball using Deep Learning, *Journal of Sports Analytics*. 8(1), 1-7.
- Lashari S., Takbiri-Borujeni, A., Fathi E., Sun, T., Rahamni, R., Khazaeli M., (2019) Drilling performance monitoring and optimization: a data-driven approach. *Journal of Petroleum Exploration and Production Technology*, ISSN=2190-0566.
- Lee, L. S., Estrada, H., and Khazaeli, M. (2019) Effective Engineering Video Tutorials *Journal of Online Engineering Education*, Vol. 9, No. 2, Article 2.
- Khazaeli, M., Javadpour, L., Estrada, H., & Takbiri-Borujeni, A. (2018) Assessment of Levee Erosion using Image Processing and Contextual Cueing. *Journal of Ecosystem and Ecography*, 8(2), 1-7.
- Khazaeli, M., El Kari, C., Baizer, J., Javadpour, L. (2017) Gesture based Human Computer Interaction for Athletic Training. *International Journal of Applied Exercise Physiology*, 6(3), 60-65. ISSN 2322-3537.
- Khazaeli, M., Javadpour, L., & Knapp, G. (2016). Image Segmentation from RGBD Images by 3D Point Cloud Attributes and High-Level Features. *International Journal of Image Processing*, 10(1), 1-13.
- Khazaeli, M., Javadpour, L., & Estrada, H. (2016). Image processing for erosion control of open-pit mines. *International Journal of Environment and Pollution*, 59(2-4), 203-212.
- Javadpour, L., Khazaeli, M., and Knapp, G.M., (2016). Machine Learning Approach for Pronominal Anaphora Resolution Based on Linguistic and Computational Features, *International Journal of Applied Mathematics and Machine Learning*, 5:1, 81-98
- Javadpour, L., Khazaeli, M., Wadhwani, D., “Scaling up Entrepreneurial Minded Learning in MIS” – in Progress.
- Javadpour, L., Khazaeli, “From Practice to Performance: Predicting Soccer Match Outcomes Using Training and Wellness Check Data” – in Progress.

REFEREED PROCEEDINGS ARTICLES

- Khazaeli, M., Orwin, L., Hanlon, J. (2025). *Building a Vibrant, Futuristic Learning Space: University of the Pacific Makerspace*. Poster at International Symposium of Academic Makerspaces, UC Berkeley.
- Khazaeli, M., Javadpour, L. (2025). *Does Wellness Predict Performance? Player-Specific Insights from Daily Monitoring in College Men's Soccer*. ISACE, Shanghai.
- Javadpour L., Khazaeli M. & Molenaar R. (2024), Analyzing Soccer Training Sessions to Predict Player Match Performance. International Sports Analytics Conference and Exhibition (ISACE) series, Paris, 12-13 July
- Khazaeli, M.; Javadpour, L.; Lindholm, E.; Estrada, H.; Lee, L. (2022) "Wi-Fi Analysis using Building Information Modeling", Proceedings of the IISE Annual Conference and Expo, May 2022.
- Gulati, S., & Khazaeli, M., Hanlon, J. S. "Entrepreneurial-minded Learning in an Introduction to Bioengineering Course", presented at 2021 ASEE, 2021.
- Lee, L. S., Estrada, H., and Khazaeli, M. "Effective Engineering Video Tutorials", Journal of Online Engineering Education," 2019, Vol. 9, No. 2, Article 2.
- Khazaeli, M.; H. Estrada, and L. S. Lee. "Building performance ontology based on parametric design" Proceedings of the 2019 IIE Annual Conference (ISERC), 18-21 May 2019, Orlando, FL.
- Khazaeli, M., H. Estrada, and L. S. Lee. A Case Study of Efficient HVAC Systems with Smart Thermostats - What Smart Thermostats Can Do in Residential Buildings? Proceedings of the 2018 Construction Research Congress (CRC 2018), New Orleans, LA, April 2-4, 2018.
- Lee, L. S., H. Estrada, and M. Khazaeli. "Student and Instructor Perceptions of Online Engineering Education Videos", presented at the 2018 American Society of Engineering Education Conference, June 24-27, 2018, Salt Lake City, UT.
- Estrada, H., L.S. Lee, and M. Khazaeli. Integrating Sustainability in Structural Engineering Education, to be presented at the IV International Conference on Structural Engineering Education, Structural Engineering Education without Borders, June 20-22, 2018, Madrid, Spain.
- Khazaeli, M.; El Kari, C. Gesture based Human Computer Interaction for Education Purposes, aWEAR 2016: Wearable technologies, knowledge development, and learning, Stanford, CA: Stanford University. Nov 2016.
- Khazaeli, M.; L. S. Lee, and H. Estrada. The Promise of Big Data in the Construction Industry, Proceedings of the 2016 IIE Annual Conference (ISERC), May 2016.
- Khazaeli, M.; C. El Kari. The Effect of Technology and Big Data in Sport Industry. Proceedings of the 2016 IIE Annual Conference (ISERC), May 2016.
- Khazaeli, M.; and Knapp, G.M.; "A Survey and Case Study of "Big Data" Challenges in Industrial Engineering ", Proceedings of the 2015 Industrial and Systems Engineering Research Conference (ISERC), May 2015.
- Javadpour, L.; and Khazaeli, M.; "Business Intelligence in the Real Estate Industry and Effect of BIM Adoption", Proceedings of the 2015 Industrial and Systems Engineering Research Conference (ISERC), May 2015.
- Khazaeli, M.; Javadpour, L.; Knapp, G.M.; "ERP adoption in enterprises with emerging Big Data ", Proceedings of the 2015 Industrial and Systems Engineering Research Conference (ISERC), May 2015, pp.1664-1671.
- Khazaeli, M.; and Saviz, C.; "Service Learning in Engineering Management", American Society for Engineering Education Zone IV Conference, Apr. 2015

- Khazaeli, M., Javadpour, L., and Knapp, G.M., "Kinect Applications in Construction: From Tracking to Reconstruction", Proceedings of the 2013 Industrial and Systems Engineering Research Conference (ISERC), May 2013, pp. 259-267.
- Calix, R. A.; Javadpour, L.; Khazaeli, M.; Knapp, G. M.; "Automatic Detection of Nominal Entities in Speech for Enriched Content Search", In Proceedings of the Twenty-Sixth International Florida Artificial Intelligence Research Society Conference (FLAIRS-26), May 22-24, 2013, St. Pete Beach, Florida, USA.
- Khazaeli, M; Javadpour, L; Knapp, G. M.; "Semantic Object Recognition for BIM Reverse Engineering", 2012 Industrial and Systems Engineering Research Conference (ISERC), May 2012.
- Halder, A; Javadpour, L; Khazaeli, M; Knapp, G. M.; "Extracting Information from Business Documents using Linguistic and Rule-Based System" 2012 Industrial and Systems Engineering Research Conference (ISERC), May 2012.
- Calix, R. A.; Khazaeli, M.; Javadpour, L; Knapp, G. M.; "Dimensionality Reduction and Classification Analysis on the Audio Section of the SEMAINE Database", In Proceedings of the Humaine Association Conference on Affective Computing and Intelligent Interaction (ACII 2011), Memphis, Tennessee, Oct. 9-12, 2011, (Lecture Notes in Computer Science, 2011, Volume 6975/2011, 323-331).