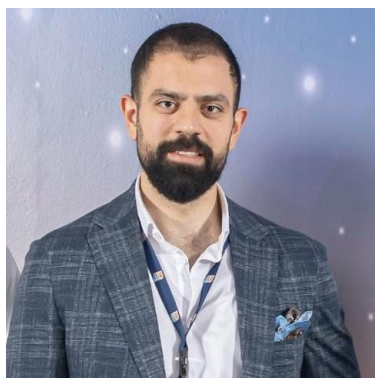




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Rank: Senior Instructor - Civil Engineering

Personal Information

Nationality:	Syrian
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Professional Information

Education:	Qualification: PhD Major: Civil Engineering College/University: Aalborg University, Denmark Year: 2023 - 2026 Qualification: Masters Major: Design & Construction Project Management College/University: Chalmers University of Technology, Sweden Year: 2017 Qualification: Bachelor Major: Civil Engineering College/University: Kuwait University Year: 2015
Specialization:	- Structural Engineering - Occupational Health & Safety - Construction Management - Data Science & AI
Current Academic Position:	- Senior Instructor - Civil Engineering
Current Professional Positions:	- International Professional Engineer (AUS), Engineers Australia (EA) - Civil Engineering

	- Chartered Professional Engineer (CPENG), Engineers Australia (EA), Australia, May 2023 - To date. - Civil Engineering - Construction Engineering - Project Management - National Engineer Register (NER), Australia - Member of Engineers Australia (EA), Australia, 2023 - To date. - Member of Kuwait Society of Engineering (KSE), 2015 - To date.
Previous Administrative Position Held:	- N/A
Previous Academic Positions Held:	- MSc. Research - Trafikverket (Swedish Transportation Agency), Gothenburg, Sweden, 2017-2018 - Research Assistant – Chalmers University of Technology, 2016-2017
Fellowships And Honors:	- Merit Scholarship for excellence in academic performance, Chalmers University of Technology, Sweden, 2016 - Excellence in Academic Performance in undergraduate studies, Kuwait University, Kuwait, 2012 & 2014 - Full Funded Scholarship for undergraduate studies, Kuwait University, Kuwait, 2010
Teaching Experience:	- Senior Civil Engineering Instructor - Australian University, Kuwait, 2025 - to date - Civil Engineering Instructor - Australian University, Kuwait, 2021- 2025. - Teaching Assistant – Chalmers University of Technology, 2015-2017
Industrial And Technical Experience:	- Dar Al-Dabbous Engineering Consultants, Kuwait, 2019-2021 - KCC Engineering & Contracting Company, Kuwait, 2017-2019 - Dar Al-Dabbous Engineering Consultants, Kuwait, 2015-2017 - Spectrum International Trading & Contracting Company, Kuwait, 2014-2015
Research Interest:	- Industrial Exoskeletons and Human Augmentation in Construction - Occupational Health, Safety, and Ergonomics - Industry 4.0 and Digitalization of the Construction Sector - Artificial Intelligence, Machine Learning, and Computer Vision - Construction Productivity and Performance Optimization - Innovations in Engineering Education and Pedagogy
Research Grants:	- Revolutionizing worker well-being and productivity in construction: The Integration of Industrial Exoskeletons to Reduce Work Related Musculoskeletal Disorders Grant #: IRC-2023/2024-SRC-PR02. Role: Principal Investigator. Funding Organization: Australian University 2024-2025 (KWD 1500 (USD 4,907)). - Development of a Novel Low-Energy Building: Utilization of Phase Change Materials, Cool Roofs, and Solar-Assisted Air Conditioning, Grant #: CN19-35EM-06. Role: Co-Investigator

	Funding Organization: Kuwait Foundation for the Advancement of Science (KFAS) 2021-2023 (KWD 29,526 (USD 95,951)).
Research and Publications including Journal and Books:	- Farhat, M. H., Mehdizadeh, A., Sedaghat, A., Badawy, M. E., Djedi, B., Al-Khiami, M. I., Mostafaeipour, A., & Nazififard, M. (2025). Origami-inspired urban wind turbines: Scalable bladeless designs for decentralized renewable energy. <i>Green Technologies and Sustainability</i>, 100253. https://doi.org/10.1016/j.grets.2025.100253 - Al-Khiami, M. I., Lindhard, S. M., & Wandahl, S. (2025). Paradox in Practice: Work-Related Musculoskeletal Disorder Prevalence and Reporting among Construction Workers in Kuwait and Denmark. <i>Journal of Construction Engineering and Management</i>, 151(7), 04025078. https://doi.org/10.1061/JCEMD4.COENG-15899 - Sedaghat, A., Djedi, B., Farhat, M. H., Al-khiami, M. I., & Badawy, M. E. (2025.). A novel origami inspired single rotor horizontal axis wind turbine. <i>Journal of Energy Systems</i>, 9(3), 271–291. https://doi.org/10.30521/jes.1723925 - Al-Khiami, M. I., Lindhard, S. M., & Wandahl, S. (2025). Prevalence of work-related musculoskeletal disorders and associated sociocultural reporting behaviors in Kuwait's construction industry. <i>WORK</i>, 81(3), 2937–2951. https://doi.org/10.1177/10519815251325780 - Al-Khiami, M. I., Lindhard, S. M., & Wandahl, S. (2024). Integrating exoskeletons in the construction sector: A systematic review of empirical evaluation tools and future directions. <i>Engineering, Construction and Architectural Management</i>. https://doi.org/10.1108/ECAM-05-2024-0563 - Sedaghat, A., Soleimani, S. M., Al-Khiami, M. I., Sabati, M., Hussam, W. K., Salem, H. J., ... Mehdizadeh, A. (2024). Case studies on energy performance of walling materials in various regions. <i>International Journal of Environmental Science and Technology</i>, 21(12), 7941–7968. https://doi.org/10.1007/s13762-024-05518-7 - Sedaghat, A., Kalbasi, R., Narayanan, R., Mehdizadeh, A., Soleimani, S. M., Ashtian Malayer, M., ... Masud K. Khan, M. (2024). Integrating solar PV systems for energy efficiency in portable cabins: A case study in Kuwait. <i>Solar Energy</i>, 277, 112715. https://doi.org/10.1016/j.solener.2024.112715 - Sedaghat, A., Mahdizadeh, A., Narayanan, R., Salem, H., Hussam, W. K., Al-Khiami, M. I., Malayer, M. A., Soleimani, S. M., Sabati, M., Rasul, M., & Kamal Khan, M. M. (2023). Implementing Cool Roof and Bio-PCM in Portable Cabins to Create Low-Energy Buildings Suitable for Different Climates. <i>Sustainability</i>, 15(20), 14700. https://doi.org/10.3390/su152014700 - Al-Khiami, M. I., Jaeger, M., Soleimani, S. M., & Kazem, A. (2023). Enhancing concrete structures education: Impact of virtual reality on motivation, performance and usability for undergraduate engineering students. <i>Journal of Computer Assisted Learning</i>, jcal.12881. https://doi.org/10.1111/jcal.12881 - Al-Khiami, M.I. and Jaeger, M. (2023) 'Safer working at heights: Exploring the usability of virtual reality for construction safety training among blue-collar workers in Kuwait', <i>Safety</i>, 9(3), p. 63. doi:10.3390/safety9030063.

	- Al-Khiami, M. I., Jaeger, M., & Soleimani, S. M. (2023). <i>The integration of digital techniques in engineering education: A case study to evaluate student's motivation and performance. International Journal of Information and Education Technology</i>, 13(5), 844–848. doi:10.18178/ijiet.2023.13.5.1877 - Sedaghat, A., Salem, H., Hussam, W. K., Mahdizadeh, A., Al-Khiami, M. I., Malayer, M. A., ... Khan, M. M. (2023). <i>Exploring energy-efficient building solutions in hot regions: A study on bio-phase change materials and cool roof coatings. Journal of Building Engineering</i>, 76, 107258. doi:10.1016/j.jobte.2023.107258 - Sedaghat, A., Soleimani, S. M., Al-Khiami, M. I., Sabati, M., Rasul, M., Narayanan, R., & Khan, M. M. (2023). <i>Development of a novel low-energy building: Effects of room orientation and wall materials. Key Engineering Materials</i>, 945, 101–108. doi:10.4028/p-26jy0u - Al-Khiami, M. I., & Jaeger, M. (2023). <i>Leveraging Chatgpt in Android App Development: A Case Study on Supporting Novice Developers in Creating Successful Apps. doi:10.20944/preprints202307.0660.v1</i> - Al-Khiami, M. I., & Zangana, A. (2017). <i>The Impact of BIM on Design Phase Productivity The West Link Case Study (thesis). Chalmers University of Technology, Gothenburg.</i>
Paper Presentations at Professional Conferences:	- Al-Khiami, M. I., Soleimani, S. M., Sedaghat, A., & Malayer, M. A. (2025). <i>Impact of Phase Change Materials on Temperature Regulation in Passive Cooling Systems. In Sustainable and Emerging Energy Technology (pp. 61–73). Springer, Cham. https://doi.org/10.1007/978-3-031-92417-0_5</i> - Al-Khiami, M. I., Soleimani, S. M., & Jaeger, M. (2025). <i>A Comparative Study of VR and 2D Plans in Concrete Structure Evaluation for Engineering Education: Does Perceived Usability Affect Performance? 2025 IEEE Global Engineering Education Conference (EDUCON), 1–7. https://doi.org/10.1109/EDUCON62633.2025.11016532</i> - Al-Khiami, M. I., Lindhard, S., & Wandahl, S. (2025). <i>Sustainable Workforce Health: Exoskeleton Effects on Posture and Performance in Repetitive Lifting for Labor-Intensive Industries and Construction. CIB Conferences, 1(1). https://doi.org/10.7771/3067-4883.1660</i> - Sedaghat, A., Nazififard, M., & Al-Khiami, M. I. (2025). <i>Dynamic IoT Determination of Overall Heat Transfer Coefficient in a Portable Cabin in Kuwait. Internet of Things, 279–290. https://doi.org/10.1007/978-3-031-81900-1_17</i> - Al-Khiami, M. I., Lindhard, S. M., & Wandahl, S. (2025). <i>Charting the Exoskeleton Industry: A Comprehensive Insight into Dynamics and Trends. IOP Conference Series: Earth and Environmental Science, 1389, 1–13. https://doi.org/10.1088/1755-1315/1389/1/012014</i> - Sedaghat, A., Al-Masri, A., Al-Khiami, M. I., & Malayer, M. A. (2023). <i>Practical Considerations for Phase Change Materials in Kuwaiti Building Envelopes: A Data-driven Approach. 2023 Computer Applications & Technological Solutions (CATS), 1–6. https://doi.org/10.1109/CATS58046.2023.10424376</i>

	- Al-Khiami, M. I., & ElHadad, M. (2024, July 14). Enhancing Construction Site Safety Using AI: The Development of a Custom Yolov8 Model for PPE Compliance Detection. Presented at the 2024 European Conference on Computing in Construction. https://doi.org/10.35490/EC3.2024.307 - Soleimani, S. M., Al-Khiami, M. I., Sedaghat, A., & Malayer, M. A. (2024). Harnessing Solar Energy for Efficient Cooling in Hot Weather Regions: A Comparative Experiment on Solar-Assisted Air Conditioning's Energy Efficiency. In X. Wang (Ed.), <i>Future Directions in Energy Engineering</i> (pp. 69–77). Cham: Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-62042-3_8 - Al-Khiami, M. I., Jaeger, M., & Soleimani, S. M. (2023). A gamified approach to concrete structure's interpretation using virtual reality: A study of performance and simulation sickness. 2023 IEEE Global Engineering Education Conference (EDUCON). Kuwait, American University of Kuwait. doi:10.1109/educon54358.2023.10125180 - Al-Khiami, M. I., Jaeger, M., & Soleimani, S. M. (2023). The use of disruptive technologies in the construction industry: A case study to compare 2D and VR methods of concrete design interpretation. <i>Digital Transformation in Business: Challenges and New Opportunities</i>. Kuwait, Australian University doi:10.3390/proceedings2023085001 - Sedaghat, A., Salem, H. J., Hussam, W. K., Mahdizadeh, A., Al-Khiami, M. I., Soleimani, S. M., ... Malayer, M. A. (2023). Development of a Novel Low-Energy Building: Effects of Climates and PCM Materials. In 11th international conference on indoor air quality, ventilation & energy conservation in buildings. Tokyo, Japan. - Sedaghat, A., Salem, H., Hussam, W. K., Mahdizadeh, A., Al-Khiami, M. I., & Malayer, M. A. (2023). Experimental study on cool roof methods for two identical portable cabins in the state of Kuwait. ICMAME 2023 Conference Proceedings. UAE, Dubai. doi:10.53375/icmame.2023.267
College Service including committee Membership:	- Member of the Technology and Virtual Reality Committee - Member of the Validation and Moderation Committee - Member of the Auditing & QM Committee - Member of the Departmental Disciplinary Committee
National Service:	- NA
College Committees:	- NA