FACULTY CURRICULUM VITAE

Name: Dr. Seyed Alireza Razavi
Rank: Assistant Professor - Aircraft Maintenance Engineering

Personal Information

Nationality:	British
AU Joining Date:	25/08/2024
E-Mail Address:	a.razavi@au.edu.kw

Professional Information

Education:	**Qualification:** PhD **Major:** Aeronautics **University:** Imperial College London **Year:** 2020 **Qualification:** MSc **Major:** Advanced Mechanical Engineering **University:** Sheffield Hallam University **Year:** 2014 **Qualification:** BSc **Major:** Mechanical Engineering (Thermo-Fluids) **University:** Shiraz Azad University **Year:** 2011 **Qualification:** Private Pilot License (PPL) **Major:** Flight Simulation, Aerodynamics, Meteorology, Flight Control **University:** International Civil Aviation Organization (ICAO) **Year:** 2010
Specialization:	- Smart Materials & Structures - Piezoelectric Vibration-Based Energy Harvesting - Smart Composite Materials - Structural Health Monitoring (SHM) - Fracture Mechanics – Damage Tolerance Analysis

	- Finite Element Analysis (FEA) - Computer-Aided Design (CAD)
Current Academic Position:	Assistant Professor - Aircraft Maintenance Engineering
Current Professional Positions:	- Research Fellow in Center of **N**anotechnology and **M**ultifunctional **S**tructures **R**esearch **C**enter (NMSRC) at Eastern Mediterranean University
Previous Administrative Position Held:	N/A
Previous Academic Positions Held:	- **Senior Instructor** (Eastern Mediterranean University), Cyprus - **Research Associate** (Imperial College London), UK - **Research Assistant** (Imperial College London), UK - **Composite Lab Supervisor**-Assistant, Cyprus
Fellowships And Honors:	- **Research Fellow** (Center of **N**anotechnology and **M**ultifunctional **S**tructures **R**esearch **C**enter (NMSRC)), Eastern Mediterranean University, Cyprus
Teaching Experience:	03/2023 – 06/2024 - **Senior Instructor** Department of Mechanical Engineering, EMU, Cyprus
Industrial And Technical Experience:	08/2022 – 08/2023 - **Remote Consultant Engineer** (Imperial Consultants (ICON)) - Imperial College London, UK 12/2021 – 03/2022 - **Postdoc** (Imperial College London & Airbus) - Passive damage detection – composite fuselage. - Passive energy harvesting – smart composite structures. - 3D-Printing, inkjet printing, and prototyping 09/2020 – 02/2021 - **Postdoc** (Imperial College London & UK Research Council (EPSRC)) - Numerical simulation of composite structures 11/2019 – 09/2020 - **Postdoc** (Imperial College London, Airbus, KTH, Briston University, Durham University, & IMDEA) - Multifunctional Structural Composites (Electrical Energy Storage)
Research Interest:	- Smart Materials & Structures - Smart Composite Materials - Piezoelectric Vibration-Based Sensing – Energy Harvesting - Multifunctional Composites - Finite Element Analysis (FEA) - Computer-Aided Design (CAD) - Gas Turbine Propulsion – Aeronautical Applications - Flight Simulation – Single-Engine Aircraft
Research Grants:	N/A

Research and Publications including Journal and Books:	- **2025** *A review of phase-field fracture modeling in terms of computational finite element method*, (Submitted Manuscript) - **2025** *Evaluation of the Brittle Fracture Ratio of a Surface Crack in a Cylindrical Shell to implement the Fitness-for-Service assessment Under the Effect of clamp, installation and torsion loadings*, (Submitted Manuscript) - **2025** A. Salih, **S. Razavi** (3rd), *Vibration Analysis of Advanced Light-Weight Piezo-Beam Energy Harvesters Under Thermal Environments, Journal of International Journal of Structural Stability and Dynamics*. - **2025** E. Ch. Onyibo, **S. Razavi** (8th), Optimization analysis of stiffness and natural frequency of unidirectional and randomly oriented short fiber-reinforced composite materials, Journal of Springer Nature. - **2024** S. Nguyen, **S. Razavi** (5th), *Manufacture and characterisation of a structural supercapacitor demonstrator*. Journal of Composite Science and Technology, DOI: 10.1016/j.compscitech.2023.110339 - **2024** C. Emmanuel, **S. Razavi** (5th), *Manufacture and characterisation of a structural supercapacitor demonstrator*. Journal of Composites Science and Technology, Volume 245, ScienceDirect, Elsevier. - **2023** M. Valkova, **S. Razavi** (4th), *Current Collector Design Strategies: The Route to Realising Scale-Up of Structural Power Composite*, Composites Science and Technology, Volume 236, ScienceDirect, Elsevier. - **2020 S. Razavi** (1st), L. Iannucci, and ES. Greenhalgh, *A Piezo Smart-Braid Harvester and Damper for Multifunctional Fiber Reinforced Polymer Composites*, Journal of Energy Technology, Wiley.
Paper Presentations at Professional Conferences:	- 2024 Emmanuel Ch., **S. Razavi** (5th), *Effect of Theta Angles on Dynamic Analysis of Auxetic Structures*, International Conference on Composite Structures (ICCS27), 3-6 Sept. 2024, Ravenna (Italy). - 2023 S. Nguyen, **S. Razavi** (5th), *Structural Supercapacitor Composite Technology Demonstrator*, ECCM 2022 - Proceedings of the 20th European Conference on Composite Materials: Composites Meet Sustainability, Volume 5, 26-30 June, Switzerland. - 2023 **S. Razavi** (1st), *Simulation of Building Ventilated Concrete-Slab in COMSOL*. 3rd International Natural Science, Engineering and Material Technologies Conference, N-Cyprus. - 2023 **S. Razavi** (1st), *A Smart Multifunctional Fiber Reinforced Polymer Composite (FRPC)*, Annual World Congress of Smart Materials (WCSM-2023), Conference, July 22-24, Barcelona, Spain. - 2018 **S. Razavi** (1st), L. Iannucci, *Simulation of the Braiding Process in LSDYNA®*, 2018. p. 8. - 2016 **S. Razavi** (1st), L. Iannucci, E. S. Greenhalgh, ECCM17th European Conf. on Composite Materials, *Piezoelectric PVDF Smart Fibre For Composite Applications*, 2016, 1–8.

College Service including committee Membership:	N/A
National Service:	N/A
College Committees:	N/A