

Dr. Abdulaziz Eid Alfadhli

Assistant Professor of Automotive and Marine Engineering Technology

Education:

- 2001, B.Sc., Kuwait University, Mechanical Engineering, Kuwait.
- 2005, M.Sc., Kuwait University, Mechanical Engineering, Kuwait.
- 2011, M.Sc., Leeds University, Mechanical Engineering, United Kingdom (UK).
- 2018, Ph.D., University of Bath, Mechanical Engineering, United Kingdom (UK).

Number of years of service on this faculty:

- Seven Years
- 2011– 2014 Assistant Instructor, Faculty of Technological Studies, PAAET, Kuwait.
- 2018 - Present Assistant Professor, Faculty of Technological Studies, PAAET, Kuwait.

Other related experience:

- 2001 to 2004, Laboratory, Mechanical Engineering Dept., Kuwait University, Kuwait
- 2005 to 2010, Teaching Assistant, Mechanical Engineering Dept., Kuwait University, Kuwait.

Teaching interests:

Engineering Graphics, Dynamics, System Dynamics, Mechanical Vibrations, Mechanical Design I and II, Modern Control Systems, Optimal design, Thermodynamics, Mathematics, Static, Linear Algebra, Solid Mechanics and Fluid Mechanics.

Courses taught at PAAET:

Thermodynamics, Gasoline fuel injection systems, Engineering drawing, Automotive mechanics.

Research interests:

- 1) Active and semi-active suspension systems.
- 2) Adaptive and suspension optimization parameters.
- 3) Vibration effects on human health and comfort.
- 4) Vibrations of rotary dynamics.
- 5) Vibration control.

Principal publications of last five years:

1. Emad Khorshid, Abdulaziz Alfadhli, Abdulazim Falah, (2018) "Application of constraint infeasibility detection methods in engineering design problems", Journal of Engineering, Design and Technology, Vol. 16 Issue: 2, pp.285-312, <https://doi.org/10.1108/JEDT-03-2017-0026>.
2. A. Alfadhli, J. Darling, A.J. Hillis, the Control of an Active Seat Suspension Using an Optimised Fuzzy Logic Controller, Based on Preview Information from a Full Vehicle Model, Vibration. 1 2018, 3. doi: 10.3390/vibration1010003.
3. Alfadhli A, Darling J, Hillis AJ. An Active Seat Controller with Vehicle Suspension Feedforward and Feedback States: An Experimental Study. Appl Sci; 8. Epub ahead of print 2018. DOI: 10.3390/app8040603.
4. Alfadhli A, Darling J and Hillis AJ (2017) The control of an active seat with vehicle suspension preview information. Journal of Vibration and Control: 1–15.
5. Khorshid, E., Alfadhli, A., & Majeed, M. (2010). A new optimal Arabic keyboard layout using genetic algorithm. International Journal of Design Engineering, 3(1), 25-40.

6. Darling J, Hillis A, Alfadhli AEHE, et al. (2016) Hardware-in-the-Loop (HIL) Simulation of a Quarter Vehicle Model using a Multi-axis Simulation Table (MAST). In: Bath/ASME FPMC 2016, University of Bath.

Honors and awards:

- LABEX award from Dean, College of Engineering and Petroleum, Kuwait University in 2003.

Institutional service in last five years:

1. 2018- Now Member of Scholarships committee
2. 2018- Now Member of Abet committee
3. 2018 -Now Member of researches and conferences committee

Professional development activities in last five years:

1. International Conference on Energy Research and Development, Kuwait, 2002
2. International Conference on Energy Research and Development, Kuwait, 2005
3. The 13th International Conference on Computational Science, ICCS 2013, Barcelona, 2013.
4. Attended the "MOETC2014 Marine Offshore and Engineering Technology" Conference, The Public Authorities of Applied Science and Training, 4-6 March 2014, in Kuwait.