

Name: Nader Ghareeb
Rank: Assistant Professor – Mechanical Engineering

Personal Information

Nationality:	German
ACK Joining Date:	18 Aug 2013
E-Mail Address:	n.ghareeb@ack.edu.kw

Professional Information

Education:	<ul style="list-style-type: none"> – Doctor of Engineering (Dr.-Ing.), RWTH Aachen University of Technology, Aachen, Germany- 2013 – Master in “Simulation Techniques in Mechanical Engineering”, RWTH Aachen University of Technology, Aachen, Germany-2005 – Bachelor in “Mechanical Engineering”, Beirut Arab University, Beirut, Lebanon-2001
Specialization:	Mechanical Engineering
Current Academic Position:	Assistant Professor
Current Professional Positions:	Assistant Professor at Mechanical Engineering Department, Australian College of Kuwait Kuwait
Previous Administrative Position Held:	
Previous Academic Positions Held:	<ul style="list-style-type: none"> – 10.08 - 07.13 Teaching and Research Assistant Institute of General Mechanics, RWTH Aachen University of Technology, Aachen, Germany. – 08.05 - 06.08 Research Assistant Flensburg University of Applied Sciences, Flensburg, Germany – 03.05 - 07.05 Research Assistant Department of Materials Science, RWTH Aachen, Germany
Fellowships And Honors:	<ul style="list-style-type: none"> – Certificate of “Best Paper Award” received during the “ICSV 2018: 20th International Conference on Sound and Vibration, April 23-24, 2018, Boston, USA – Acquisition of “NEBOSH International General Certificate in Occupational Health and Safety”, November 2017 – Certificate of “Best Paper Award” received during the “ACMSI 2016: 18th International Conference on Materials and Structural Integrity,

	August 4-5, 2016, Vancouver, Canada – Acquisition of “TAE40110 Certificate IV in Training and Assessment”, May 2016
Teaching Experience:	– Since August 2013: Assistant Professor at Mechanical Engineering Department of ACK – 10.08 - 07.13 Teaching and Research Assistant, Institute of General Mechanics, RWTH Aachen University of Technology, Aachen, Germany
Industrial And Technical Experience:	– 03.12 - 04.13 Analysis and optimization of a needle nozzle, Order of Grindaix GmbH, Aachen, Germany Activities: Static simulation of a product prototype Finite element analysis to find out the position and value of peak stresses Geometrical optimization to ensure identical discharge throughout all nozzles – 02.09 - 12.10 Dynamic Analysis of a spindle lifting beam, Order of AREVA NP GmbH, Erlangen, Germany Activities: Modeling and discretization of the mechanical system Analytical computation of the active loads Dynamic finite element simulation of the system with all its components – 11.08 - 01.09 Modeling and Analysis of a furniture fitting system, Order of Huwil-Werke GmbH, Ruppichteroth, Germany Activities: Construction of a CAD model of the structure Execution of a multi-body-system and finite-element analysis to simulate the motion of the system and calculate the state of stresses on critical elements Determination of position and value of peak stresses – 12.01 - 08.02 HVAC Engineer, G.M. Al-Zahrani Establishment, Jeddah, Saudi Arabia
Research Interest:	Design and Control of Smart Structures, Finite Element Analysis, Multi-body Simulation, Blast Simulation, Wind Turbines
Research Grants:	
Research and Publications including Journals and Books:	– August 2018: S. Soleimani, N. Ghareeb and N. Shaker, “Modeling, Simulation and Optimization of Steel Sandwich Panels under Blast Loading”, American Journal of Engineering and Applied Sciences, ISSN Print: 1941-7020 – May 2017: N. Ghareeb, M. Gaith and S.M. Soleimani, "Smart structures: Modeling, analysis, and control with different strategies", Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, and Civil Infrastructure 2017, Proc. of SPIE Vol. 10169, doi: 10.1117/12.2258580 – January 2016: N. Ghareeb, M. Gaith, T. Alloush and M. Al-Sarraf,

	<p>"Energy Harvesting from Vibrating Piezo-Electric Structures", Journal of Robotics and Mechanical Engineering Research, vol. 1, no. 3, pp. 14-21</p> <ul style="list-style-type: none"> – December 2012: N. Ghareeb and R. Schmidt, "Modelling and Control of a Smart Beam", PAMM Appl.Math. Mech., vol. 12, pp.703-704 – August 2009: N. Ghareeb and Y. Radovicic, "Fatigue Analysis of a Wind Turbine Power Train", DEWI Magazin, Germany, no. 35, August 2009, pp.12-16
<p>Paper Presentations at Professional Conferences:</p>	<ul style="list-style-type: none"> – April 2018: N. Ghareeb and R. Schmidt: "Implementation of State-Space and Super-Element Techniques for the Modeling and Control of Smart Structure with Damping Characteristics", Proceedings of ICSV2018: 20th International Conference on Sound and Vibration, Boston, USA, vol. 20, no. 4, pp. 1100-1109 – August 2016: N. Ghareeb, M. Gaith and S.M. Soleimani, "Modeling, Analysis and Control of a Smart Composite Structure", Proceedings of the ICMSI 2016: 18th International Conference on Materials and Structural Integrity, Vancouver, Canada, vol. 10, no. 8, pp. 679-682 – August 2016: S.M. Soleimani, N. Ghareeb, N. Shaker and M. Siddiqui, "Modeling and Simulation of Honeycomb Steel Sandwich Panels under Blast Loading", Proceedings of the ICMSI 2016: 18th International Conference on Materials and Structural Integrity, Vancouver, Canada, vol. 10, no. 8, pp. 667-676 – January 2015: S.M. Soleimani and N. Ghareeb, "Finite Element Modeling of Steel Beams under Blast Loading", Proceedings of the 5th International Workshop on Performance, Protection & Strengthening of Structures under Extreme Loading, Michigan, USA, pp. 530-537 – September 2014: N. Ghareeb and R. Schmidt, "Active Vibration Control of a Super Element Model of a Thin-walled Structure", Proceedings of the 11th International Conference on Informatics in Control, Automation and Robotics, Vienna, Austria, vol. 1, pp.657-664 – June 2013: N. Ghareeb and R. Schmidt, "Design and Implementation of a Linear Controller on a Reduced Model of a Smart Structure", Proceedings of Compdyn 2013 4th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Kos, Greece, Paper no. 1585 – May 2013: N. Ghareeb and R. Schmidt, "The Active Control of a Reduced Model of a Smart Structure", Proceedings of ICCES013 International Conference on Computational & Experimental Engineering and Sciences, Seattle, USA

	<ul style="list-style-type: none"> – July 2012: N. Ghareeb and R. Schmidt, "Modeling and Active Vibration Control of a Smart Structure", Proceedings of the 9th International Conference on Informatics in Control, Automation and Robotics, Rome, Italy, vol. 1, pp.142-147 – March 2009: N. Ghareeb and D. Weichert, "Combined Multi-Body-System and Finite Element Analysis of a Complex Mechanism", Proceedings of the 11th SAMCEF User Conference, Paris, France
College Service including committee Membership:	<ul style="list-style-type: none"> – Mechanical Engineering Department Validation and Moderation Committee – Mechanical Engineering Department PBL Committee – Mechanical Engineering Department CT Committee
National Service:	
School Committees:	<p>Coordinator for the Graduation Exhibition Spring 2017</p> <ul style="list-style-type: none"> – Member of School of Engineering PBL Committee