

Abdallah Al Tamimi, PhD, Eng.

E-mail: aaltamimi@adnoc.ae | mobile: +971 (50) 669-5549 DOB: 27 Dec 1986

Languages: Arabic and English | marital status: single

A Reliability engineering professional with expertise in research, project management and engineering analysis pursuing a Research and Development based career in order to exploit, utilize and develop both reliability and mechanical engineering philosophies to improve the efficiency, minimize the cost and reduce the risk

Education

- PhD Degree, Reliability Engineering: 2014
 - University of Maryland, College Park, MD, USA
 - PhD dissertation entitled: "Improved Probabilistic Remaining Useful Life Estimation in Engineering Structures: Modeling Multi-site Fatigue Cracking"
- Master Degree, Reliability Engineering, 2012
 - University of Maryland, College Park, MD, USA
 - CGPA: 3.89, Honors
- Bachelor Degree, Mechanical Engineering, 2010
 - Petroleum Institute, AD, UAE
 - CGPA: 3.50, Honors

Research Interests and Expertise

- Pipeline integrity
- Failure mechanisms and life prediction modeling
- Probabilistic risk assessment
- Probabilistic physics of failure of mechanical systems
- Reliability analysis of complex engineering systems
- Prognosis and health management
- Hybrid systems reliability (systems of hardware, software and human)
- Bayesian data analysis
- Risk based design

Publications

- Conference papers
 - Pitting Corrosion: "Reliability Analysis for Degradation Effects of Pitting Corrosion in Carbon Steel Pipes", International Conference on Mechanical Behavior of Materials, Como, Italy, 2011
 - Multi-site Fatigue Damage (MSD): "Coalescence and growth of two semi-elliptical coplanar cracks in API-5L grade B, experimental perspective", Society of Experimental Mechanics conference, Greenville, South Carolina, USA, 2014
 - Measurement and Modeling Uncertainty: "Improved Probabilistic Useful Life Estimation in Structures: Modeling Multi-site Fatigue Cracking in Oil and Gas Service Structures", Prognostic Health Management conference, Fort Wroth, Texas, USA, 2014
- Journal paper
 - Modeling Multi-site Fatigue: "Improved Probabilistic Modeling of Multi-Site Fatigue Cracking", International Journal of Prognostic Health Management.

Internship

- University of Maryland, College Park, Center of Risk and Reliability, MD, USA
 - Advisor: Prof. Mohammed Modarres
 - Research Area: Pitting Corrosion / Stress Corrosion Cracking / Corrosion-Fatigue

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Experience

- R&D Portfolio Specialist, May 2015-Present
 - Abu Dhabi National Oil Company, AD, UAE
- Mechanics and Reliability laboratory manager, January 2014-October 2014
 - University of Maryland, MD, USA
- Graduate teaching assistant, Mar 2010 - Aug 2010
 - The Petroleum Institute, AD, UAE
- Mechanical supervisor, Sep 2009 - Mar 2010
 - Abu Dhabi Marine Operating Company (ADMA-OPCO), AD, UAE
- Undergraduate teaching assistant, Jan 2007 - Jun 2009
 - The Petroleum Institute, AD, UAE

Professional Presentations

- 2015 Plant Maintenance and Reliability 6th Global Praxis Interactive Technology Workshop
 - Abu Dhabi, UAE
 - Presentation entitled: Improved Probabilistic Remaining Useful Life Estimation in Engineering Structures

References

- Mohammad Modarres, Minta Martin Professor of Engineering, Director of the Reliability Engineering Program, Professor of Nuclear Engineering
 - University of Maryland, College Park, MD, USA
 - Phone: +1 301-405-5226, e-mail: modarres@umd.edu
- Mohamad Al-Sheikhly, Professor of Material Science and Engineering
 - University of Maryland, College Park, MD, USA
 - Phone: +1 301-405-5214, e-mail: mohamad@umd.edu
- Wafik Beydoun, R&D Division Manager
 - Abu Dhabi National Oil Company
 - Phone: +971-2-6023477, e-mail: wbeydoun@adnoc.ae