



# DR. JASEM AL RAJHI

## ASSOCIATE PROFESSOR

### CONTACT



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El-Shuwaikh, 70654 – Kuwait

### SKILLS

- Negotiation Skills
- Time Management Skills
- Supervisory Leadership
- Excellent Skills in Dealing with the Public
- Problem-solving and Decision-making
- Effective Interpersonal Skills
- The Seven Habits of Success
- Time Management Skills
- Vehicle Accident Analysis

### MY PROFIL

Department of Automotive and Marine Engineering College of Technological Studies – The Public Authority for Applied Education and Training P.O. Box: 42325 El-Shuwaikh, 70654 – Kuwait

### ACADEMIC DEGREES:

#### ■ BACHELOR

August 1994 | Bachelor of Mechanical Engineering Technology, Dayton University, USA.

#### ■ MASTER

January 1999 | Master of Automotive Engineering, Leeds University, United Kingdom.

#### ■ PH.D

July 2006 | Ph.D. in Mechanical Engineering (Automotive Accidents), Monash University, Australia

### WORK EXPERIENCES:

- Mechanical Maintenance Engineer - Kuwait Petroleum Company - Kuwait (1994-1997).
- Negotiations Manager for Darna General Trading Company - Kuwait (2007-2009).

### TEACHING INTERESTS

- Analysis and planning of vehicle accidents
- Maintenance
- Automotive mechanics
- Dynamics
- Design and engineering drawing

## YEARS OF SERVICE IN THE GENERAL AUTHORITY FOR APPLIED EDUCATION AND TRAINING:

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- Faculty member in the Automotive and Marine Department since October 22, 1997.
- Missionary Teaching Assistant for the Master's degree from January 1998 to January 1999.
- Assistant Professor in the Automotive and Marine Department from January 1999 to October 2001.
- Missionary Teaching Assistant for the Ph.D. degree from October 2001 to July 2006.
- Associate Professor in the Automotive and Marine Department from August 2006 to 2011.
- Head of the Automotive and Marine Engineering Technology Department from 2011 until now.

## ACADEMIC ACHIEVEMENTS:

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- Chairman of the First World Conference on Marine Engineering and Oil Platforms and issuance of a scientific journal for the research presented at the conference, deposited in the National Library of Kuwait with an international standard number (ISSN) - March 2014.
- Development of an academic program (Diploma) in the department - Heavy Equipment Technology (2013/2014).
- Establishment of a Bachelor's program in Applied Mechanical Engineering with a specialization in Automotive Engineering - approved by the College Council and presented to the General Authority for Applied Education and Training Management - April 2014.
- Consultant and Supervisor for the Diploma program specializing in Automotive Engineering Technology at the Military School affiliated with the Kuwaiti Army in collaboration with the Gulf University for Science and Technology.
- Several scientific and academic agreements with Gulf and international universities (Petroleum Institute University, London University, Northwestern University, Deakin University).

## MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS:

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- Member of the Kuwait Society of Engineers (KSE).
- Member of the Society of Automotive Engineers (SAE).
- Member of the Kuwait Traffic Safety Association.
- Member of the Australasian-Pacific Collision Investigation Association (ASPACI).

## ADMINISTRATIVE AND TECHNICAL ACHIEVEMENTS:

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- Head of the Automotive and Marine Engineering Technology Department since October 2011 - December 2015.
- Established an academic agreement with Northwestern University, USA, to create the first specialized center for vehicle accidents (2012/2013).
- Signed a memorandum of understanding with Deakin University, Australia, for course accreditation, student exchange, and joint supervision of postgraduate students (2012/2013).
- Established a scientific and strategic partnership agreement with the Petroleum Institute University and Research Center in Abu Dhabi (2014).
- Established a technical and training agreement for students with Alghanim Industries (management was contacted to take the necessary steps, 2014).
- Exchanged expertise with the Kuwait Traffic Safety Association and conducted joint courses and seminars to mitigate the impact of car accidents.

## STUDENT ACHIEVEMENTS:

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- Participation in the first competition at the Gulf and regional levels, where the car was assembled, fabricated, and manufactured in the department workshops in collaboration with students - Abu Dhabi Hybrid Car Race 2014, organized by the Petroleum Institute University, United Arab Emirates.
- Student contribution to organizing the Maritime Engineering and Oil Platforms Conference in March 2014.
- Annual Open Day organized in collaboration with private sector companies and the job market (Volvo Cars, Alghanim Industries, National Petroleum Company) to encourage students to work in the private sector.
- Yearly participation in the Australian Universities Exhibition as the President of the Kuwaiti Association of Australian Graduates.
- Establishment of a training course for postgraduate studies titled "How to Obtain a Master's and Ph.D.?" since 2006 until now.

## RESEARCH INTERESTS:

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- Risk management in factories and engineering workshops
- Vehicle safety devices (cars and trucks)
- Maintenance of vehicles and equipment, centralized maintenance scheduling
- Planning and analysis of traffic accidents involving cars, public transportation, motorcycles, and pedestrians

## PROFESSIONAL ACTIVITIES:

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- Member of the General Transport Authority Committee - Kuwait Society of Engineers (2008-2009)
- Member of the Traffic Studies Committee - Supreme Council of Traffic (2007-2008)
- Collaborated with the Amiri Diwan by submitting ideas and proposals - Consultative Studies and Research Department (2008-2009)
- Participation in the preparatory conference for the General Transport Authority under the auspices of the General Manager of the Public Authority for Applied Education and Training, Kuwait - JW Marriott Hotel

## SUPPORTED SCIENTIFIC PROJECTS:

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### Research Title:

Study of the bus replacement policy in Kuwait's public transport that achieves maximum operational profit - Project Research Number (TS-08-08)

### Scientific Publications:

This aspect has been covered in the scientific research department (attached).

## COMMITTEES AT THE DEPARTMENT, COLLEGE, AND AUTHORITY LEVELS:

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### First, at the Department level:

- Head of the Automotive and Marine Engineering Technology Department (Chair of Appointments and Missions Committees)
- Chair of the Research and Scientific Conferences Committee
- Chair of the Equivalency Committee
- Member of the Promotions Committee
- Member of the Missions and Appointments Committee
- Member of the Appointments Committee
- Final Exam Committee for Field Training Course - by decision and assignment from the Head of the Scientific Department
- Chair of the Faculty Training Staff Evaluation Committee - by decision and assignment from the Head of the Scientific Department
- Editor-in-Chief of an electronic journal specializing in the scientific department's disciplines - educational

### Second, at the College level:

- Submitted a proposal to the College Dean for the First Conference to determine the development vision of the college involving all scientific departments under the title "Future Vision of the College of Technological Studies" - August 2010
- Member of the Traffic Studies Diploma Committee
- Member of the Scientific Research Committee at the College
- Member of the Fact-Finding Committee
- Chair of the Scientific Research Evaluation Committee - assigned by the Assistant Dean for Academic Affairs

### Third parties, at the Authority level:

- Member of the Preparatory Committee for the Heading Global 2016 Conference - July 2015
- Participating member of the Higher Committee for the Heading Global 2016 Conference - October 2015
- Member of the Organizing Committee for the Heading Global 2016 Conference - October 2015
- Member of the Working Group to evaluate the content of training courses for the Measurement, Evaluation, and Professional Development Center and the Deanship of Community Service and Continuing Education - (5/2015)

## COMMITTEES AT THE DEPARTMENT, COLLEGE, AND AUTHORITY LEVELS:

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- Chair of the Committee to adjust the status of faculty or training staff who obtained scientific certificates during their tenure in the Authority - decision by the Director-General of the Public Authority for Applied Education and Training
- Chair of the Disciplinary Council - decision by the Director-General of the Public Authority for Applied Education and Training
- Member of the Disciplinary Committee - decision by the Director-General of the Public Authority for Applied Education and Training
- Chair of the Investigation Committee - decision by the Director-General of the Public Authority for Applied Education and Training
- Member of the Investigation Committee - decision by the Director-General of the Public Authority for Applied Education and Training
- Member of the Committee for the Exchange of Faculty and Training Staff with Higher Education Institutions in the Gulf Cooperation Council countries - General Secretariat of the Gulf Cooperation Council - Public Authority for Applied Education and Training
- Drafting a proposal for establishing a Services Office for faculty and training staff with higher education institutions in the Gulf Cooperation Council countries
- Discussion of the job market for marketing the Heavy Equipment Diploma Program (Ministry of Defence, National Guard, and private sector companies)
- Nominated as a Technical Coordinator for the programs of the Deanship of Community Service and Continuing Education for the academic year 2009/2010.

## RESEARCH INTERESTS:

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- Scientific Mission: Attended the London International Conference on Education - UK 2009
- Rapid Achievement Skills - On-the-Job Training - Public Authority for Applied Education and Training
- Educational Qualification Course - On-the-Job Training - Public Authority for Applied Education and Training
- Dealing with Work Pressures Course - On-the-Job Training - Public Authority for Applied Education and Training
- Boiler Maintenance and Operation - Kuwait National Petroleum Company - Training Center
- Scientific Research Methods Course - On-the-Job Training - Public Authority for Applied Education and Training

## TRAINING EXPERIENCES - TRAINER AND LECTURER:

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### First: Ibn Al-Haytham Center - Public Authority for Applied Education and Training - Kuwait

- Negotiation Skills
- Time Management Skills
- Supervisory Leadership
- Excellent Skills in Dealing with the Public
- Problem-solving and Decision-making
- Effective Interpersonal Skills
- The Seven Habits of Success
- Time Management Skills
- Vehicle Accident Analysis

### Second: Assessment and Measurement Center - Public Authority for Applied Education and Training - Kuwait

- Successful Trainer - for Faculty and Training Staff
- Supervisory Leadership

### Third: Kuwait Society of Engineers

- Vehicle Accident Reconstruction
- Vehicle Standard Specifications

### Fourth: Organizer and Trainer for Life Training Courses and Programs

### Fifth: Head of the Training Center at the Faculty Association and Trainer - Faculty Association members.

## COMMUNITY SERVICE:

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### First, for Students:

- "Achieving Success in Our Hands" Course - College of Health Sciences - Student Union 2007
- "The Seven Habits of Success" - Bahrain Students Union, Kuwait Branch - Kuwait University
- "Self-Confidence" - College of Basic Education - Student Union 2008
- "How to Obtain a Master's and Doctorate Degree" Course - Faculty Association (Repeated five times from 2006 to 2010)

### Second, Television and Radio Interviews:

- "Challenges Program" - Topic: Industry and Goal Setting - Kuwait Radio
- "Your Home Program" - Segment Topic: "How to Obtain a Doctorate Degree" - Kuwait Television
- "Good Morning Nation Program" - Planning and Success Habits - Kuwait Television
- "Your Home Program" - Car Tires and Accidents - Kuwait Television

### Third, for Schools:

- Al-Nakhil Kindergarten - Al-Rihab Area - Course on Interpersonal Skills
- Bilingual American School - Khaitan - Volunteer work and University Life Planning Course
- Girls' High School - Abdullah Al-Mubarak - Time Management and Planning

## GENERAL ASSOCIATIONS:

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- Awareness Activities against Accidents - Kuwait Traffic Safety Association - for University and School Students
- Member of the Preparatory Committee for the National Solidarity Conference - Kuwait Society of Engineers
- Founder of the Kuwaiti Students Association in Australia
- Founding Member and President of the Kuwaiti Association for Graduates from Australia
- Ministry of Social Affairs and Labor - Goal Achievement Course



## SCIENTIFIC PRODUCTION AND PUBLISHING

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1. Dr. Jasem M.S. Al-Rajhi, Dr. Hilal A. Abdelwali, Dr. Elsayed E.M. Ellaimony, and Dr. Swilem A.M. Swilem, A Decomposition Algorithm for Solving A Class of Bi-Criteria Multistage Transportation Problem With Case Study, 2013, Vol. 2, Issue 9, International Journal of Innovative Research in Science, Engineering and Technology.
2. Dr. Mukhtar M., A. Murad, and Dr. Jasem Alrajhi, Consumption Comparison of Different Modes of Operation of a Hybrid Vehicle, 2013, (2)9, International journal of science & technology.
3. Jasem M. Alrajhi, and Ahmed Abed, Effect of Non-linear Damper in Dynamic Vibration Absorber Behavior, 2014, Universal Journal of Mechanical Engineering 2(5): 155-157.
4. Mohsen Alardhi, Ahmed Abed, Yousef Alhouli, Khalid Alkhulaifi, and Jasem ALRajhi, Non-linear Dynamic Model of Pressure Regulatin Valve, 2014, International journal of science & technology 3(8):845-853.
5. K. Alkhulaifi, M. Alardhi, J. Alrajhi and A. Abed, Drop Damping Seat to Reduce Whiplash Injury in Rear-end Collision, 2014, Global Journal of Researches in Engineering: B (Automotive Engineering), Volume 14, Issue 3, Version 1, 13-18.
6. M. Alardhi, K. Alkhulaifi, J. Alrajhi and A. Abed, Linear Damping Seat to Reduce Whiplash Injury in Rear-end Collision, 2014, Global Journal of Researches in Engineering: B (Automotive Engineering), Volume 14, Issue 3, Version 1, 25-30.
7. J. Alrajhi, M. Alardhi, A. Abed and K. Alkhulaifi, Development a Single Zone Heat Release Model, 2014, Global Journal of Researches in Engineering: B (Automotive Engineering), Volume 14 Issue 4 Version 1.0 Type: Online ISSN: 2249-4596 & Print ISSN: 0975-5861.
8. Dr. Mukhtar M. A. Murad, Dr. Jasem Alrajhi, and Dr. Manzoor Ali, Experimental Analysis On The Performance Of A Traction System, 2013, International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 8, IJERTIJERT ISSN: 2278-0181.

## SCIENTIFIC PRODUCTION AND PUBLISHING

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9. Yehia Abdel-Nasser, Jasem Alrajhi, Mohsen Alardhi, and Khalid Alkhulaifi, Frontal Crash Simulation of Vehicles Against Lighting Columns in Kuwait Using FEM, 2013, International Journal of Traffic and Transportation Engineering 2(5): 101-105.

10. Dr. Jasem M.S. Alrajhi, Dr. Hilal A. Abdelwali, Dr. Mohsen S. Alardhi, and Eng. Rafik El Shiaty, ON BICRITERIA LARGE SCALE TRANSSHIPMENT PROBLEMS, 2012, Journal of Engineering and Technology.

11. M. H. Alhajeri, H. Alhamad Alhajeri, Jasem Alrajhi, Mohsen Alardhi, and Sulaiman Alshaye, Numerical Analysis of Fluid Flow in Turbine Blade Cooling Passage, 2011, International Journal of Science and Advanced Technology (ISSN 2221-8386).

12. M. H. Alhajeri, Jasem Alrajhi, Mohsen Alardhi, and Saleh Alhajeri, Numerical Investigation of Flow Past Cylinder in Cross Flow, 2010, World Academy of Science, Engineering and Technology.

13. Hilal A. Abdelali, Elsayed E.M. Ellaimony, Ahmed E. M. Murad, and Jasem M. S. Al-Rajhi, Optimum Replacement Policies for Kuwait Passenger Transport Company Busses Case Study, 2011, World Academy of Science, Engineering and Technology Vol:51.

14. Mukhtar M. A. Morad, and Jasem Alrajhi, The Effect of High Temperature on Engine Performance in Kuwait Conditions, 2014, Journal of Mechanical Engineering and Automation 4(2): 55-62

15. Mukhtar M. A. Morad, and Jasem Alrajhi, Theoretical Analysis on The Performance of A Traction System, 2013, International Journal of Science and Advanced Technology (ISSN 2221-8386).

## SUMMARY OF THE ROLE OF THE HEAD OF THE SCIENTIFIC DEPARTMENT:

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Dr. Jassim Mohammed Al-Rajhi played a crucial role in elevating the performance of the scientific department, the College of Technological Studies, and the General Authority for Applied Education and Training. From October 27, 2015, to October 27, 2011, he actively contributed to enhancing the academic standards and effectiveness of these institutions.

## SERVICES:

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We offer our expertise, which spans over 25 years, in assisting all types of industrial, commercial, and service companies in Arab countries to implement ISO quality management system standards.

1. Automotive Engineering and Technology.
2. Transportation Systems Planning.
3. Planning maintenance, repairs, and refurbishment processes for institutions and individuals.
4. Analysis of vehicle accidents (cars, buses, motorcycles, trucks, trains) resulting from traffic, technical, or human factors.
5. Research and development of diagnostic tools for vehicle faults.
6. Conducting seminars and lectures on various types of road accidents and traffic safety.
7. Collaboration with other consulting firms in road design to achieve traffic safety.
8. Ensuring the technical specifications of spare parts (locally manufactured or imported) through necessary testing in cooperation with local (Kuwait University or College of Technological Studies) or international laboratories.
9. Supervision of the design and planning of technical workshops.