

## Curriculum Vita

**Name:** *Salih N Akour*

**Major:** Ph.D., Mechanical Systems, Mechanical Engineering

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### EDUCATIONAL BACK GROUND

- **Ph.D.**, Mechanical Systems, Mechanical Material Airspace Engineering, University of Central Florida, August 2000.
- **M.Sc.** Mechanical Engineering, Jordan University of Science and Technology (J.U.S.T.), 1994.
- **B.Sc.** Mechanical Engineering, Jordan University of Science and Technology, 1992.

### EXPERIENCE

#### A. PROFESSIONAL

- Member of consultation team for Lockheed Martin Inc. (Electronic and Missiles, Florida, USA) through the University of Central Florida (USA), Design Verification of Magnetic Levitation Vehicle, 1997-1998.
- Consultant for U. S. Filters through the University of Central Florida (USA). Design verification and failure Investigation of Internally Threaded Spool, 1999-2000.
- Member of Consultation Team for the Design and Rapid Prototyping Center, college of Engineering and Computer science, University of Central Florida, USA, 2000-2006.

- Design and Manufacturing Engineer, Remotely Piloted Vehicle (Aircraft), Project Sponsored by Royal Jordanian Air force and Jordan University of Science and Technology, 1991-1995.
- Consultant for Ennab Co., Design and verification of Space Structures, Design and Construction of Aluminum Profiles, Summer 2003.
- Consultant for MAANI PreFab (Prefabricated Buildings), Design and Simulation of Sandwich Panel Structure, Summer 2004.
- Consultant for Jordan Aerospace Industries (JAI). Unmanned Vehicles: Composite Construction, Summer 2005.
- Consultant for Jordan Advance Remote Systems (JARS), Unmanned Vehicles: Composite Construction, Summer 2006.
- Consultant for Seabird Aviation Jordan LLC, Building Composite Construction Workshop and, Design verification of replacing Seabird aircraft wing and tail boom by composite structure, Summer 2007.
- Consultant for MAANI PreFab (Prefabricated Buildings), Design, Simulation and Implementation of ISO-Corner Structure, 2006-2008.
- Consultant for The Research Council (TRC), Industrial Innovation Center, Oman: Development of Mazoun Establishment, Oman, 2010-2011.

## **B. ADMINISTRATIVE**

- Sustainable and Renewable Energy Engineering Chairman and Founder, University of Sharjah, Academic year 2013-2014.
- Director of International Training Office, Hashemite Kingdom of Jordan, September 2006 to September 2007.
- Director of Training Office, Faculty of Engineering and Technology, University of Jordan, September 2006 to September 2007.
- Assistant Dean for Training and Development, September 2006 to September 2007.
- ABET Committee Coordinator of the Faculty of Engineering and Technology, September 2006 to September 2007.

### **C. ACADEMIC**

- Professor of Mechanical Engineering Systems, Mechanical Engineering Department, School of Engineering, The University of Jordan, since November 2018 to present.
- Associate Professor, Mechanical Engineering Department, The University of Jordan, since September 2015 to November 2018.
- Associate Professor, Sustainable and Renewable Energy Engineering Program, College of Engineering, University of Sharjah, since September 2011 to September 2015.
- Associate Professor, Mechanical and Industrial Engineering Department, Sultan Qaboos University, since August 2008 to 2011.
- Associate Professor, Mechanical Engineering Department, The University of Jordan, since January 2006- August 2008.
- Assistant Professor at the University of Jordan, 2000-2006.
- Visiting Research Professor, University of Central Florida Research Center, Summer 2001 and Summer 2002.
- Graduate Teaching Assistant and Research Assistant, Mechanical Material Aerospace Engineering Department, University of Central Florida , August 1997 to August 2000 (CAD /CAM & Rapid Prototyping).
- Full time lecturer, Faculty of Engineering and Technology, The University of Jordan, September 1995 to September 1997.
- Research and Teaching Assistant, of Mechanical Engineering Department, J.U.S.T, January 1992 to September 1994.
- Part Time Engineer, J.U.S.T. Engineering Workshop, Working on CNC Machines, January 1991 to January 1992.

## D. TEACHING

<b>Undergraduate Courses:</b>	<ul style="list-style-type: none"><li>• Wind Energy</li><li>• Hydro-energy</li><li>• Introduction to Energy</li><li>• Manufacturing Processes</li><li>• Numerical Methods for Engineers</li><li>• Statics and Dynamics</li><li>• Vibration</li><li>• Machine Design</li><li>• Computer Aided Design (CAD)</li><li>• Engineering Graphics</li><li>• Machinery (Mechanics of Machines)</li><li>• Flight Mechanics</li><li>• Product Design and Development</li><li>• Thermodynamics I</li><li>• Heat and Mass Transfer</li><li>• Fluid Mechanics</li></ul>
<b>Graduate Courses:</b>	<ul style="list-style-type: none"><li>• Wind Energy</li><li>• Renewable Energy Systems</li><li>• Introduction to Weather, Climate and the Environment</li><li>• Research Methodology</li><li>• Numerical Analysis</li><li>• Computer Aided Design and Modeling</li><li>• Computer Aided Design and Simulation</li><li>• Optimization</li><li>• Elasticity</li><li>• Design and Rapid Prototyping</li></ul>
<b>Laboratory Development:</b>	<ul style="list-style-type: none"><li>• Establishing Experimental Stress Analysis Laboratory at The University of Jordan.</li><li>• Establishing Manufacturing Processes Laboratory at Sultan Qaboos University.</li><li>• Establishing the Following Labs for the Sustainable and Renewable Energy Program at The University of Sharjah: Heat Transfer Lab, Fluid Mechanics Lab., Wind Energy Lab.</li><li>• Establishing the Following Labs for the Mechanical Engineering Program at The University of Sharjah: Heat Transfer Lab, Senior Design Lab., Mechanics of Material Lab., Machine Elements Lab., Thermo-Fluid Lab.</li></ul>
<b>Curriculum Development:</b>	<ul style="list-style-type: none"><li>• Mechanical Engineering graduate and undergraduate curricula at The University of Jordan.</li><li>• Mechanical Engineering Curriculum at Sultan Qaboos University.</li><li>• Mechanical Engineering Curriculum at the University of Sharjah.</li></ul>

## **ACADEMIC COMMITTEES**

### **Jordan / University of Jordan:**

#### Mechanical Engineering

- ABET Committee Chairman.
- Curriculum Committee Chairman.
- Member of PhD Qualifying Exam Committee.
- Member of Recruitment Committee.
- Member of Research Fund Committee.
- Member of Promotion and Tenure committee.

#### Faculty of Engineering and Technology

- Coordinator of ABET Committee.
- Member of Student Affairs Committee.
- Coordinator of Innovation group.
- Chair of Student's council election committee.
- Member of Discipline Committee.
- College Council Member.

#### University of Jordan

- Member of The University of Jordan Council; Representative of the School of Engineering; for the academic years 2004/2005, 2005/2006 and 2021/2022.
- Member of, Quality Assurance Committee, September 2006 to September 2007.
- Member of Tender Committee for the installation of 16MW Solar PV plant for The University of Jordan, 2017/2018.

Hashemite Kingdom of Jordan

- Member of Permanent Technical Committee for Fluid Tools Sector, Jordan Institute for Standards and Metrology, 2005-2008.

**Oman / Sultan Qaboos University:**

Mechanical Engineering

- Coordinator of ME Student-Staff Liaison Committee (Fall 2009-2011)
- Member of Department Curriculum and Accreditation Committee (DCAC) Committee (2008-2010).
- Member of Department Conference Committee (Spring 2009-2011)
- Chair of Industrial Training and Alumni Committee (Starting Fall 2010-Summer 2011)

Sultan Qaboos University

- Member of Recruitment exam committee for Ministry of Civil Service (Spring 2010).
- Member of Recruitment exam committee for Human Resources Department, Royal Court Office (Spring & Fall 2010).

Sultanate of Oman

- Member of Al-Sult bin Malik School Guardian Council (October 2008- June 2011).

**Sharjah / The University of Sharjah:**

- Member of the Search and Hiring committee for Mechanical Engineering Faculty.
- Member of the Search and Hiring committee for Sustainable and Renewable Energy Engineering Faculty.
- Member of the Search and Hiring committee for Mechanical Engineering Lab Engineer.
- Member of the Search and Hiring committee for Sustainable and Renewable Energy Engineering Lab Engineer.
- Chair of the Teaching and Learning Committee.

## **ATTENDED SHORT COURSES and WORKSHOPS**

- Basic course in *IDEAS-Master Series* software, USA, Florida, Orlando, *Lockheed Martine*, Electronic and Missiles, Spring 1999.
- Advance Course in *I-DEAS Master Series* software, USA, Florida, Orlando, *Lockheed Martine*, Electronic and Missiles, Spring 2000.
- FaroArm Workshop: Operating FaroArm hardware and software, by InfoCAD S. A., Athens Greece, Held in Sultan Qaboos University, Oman, 2008.
- ABET Workshop: Sustainable Program Assessment, by ABET Foundation Inc., USA, Held in Sultan Qaboos University, Oman, April 2010.
- Intellectual Property Workshop: WIPO National Workshop on International Classification for Industrial Designs, Held in Ministry of Commerce and Industry, Oman, May-June 2010.
- Energy Services Workshop, by World Trade Organization, Held in Ministry of Commerce and Industry, Oman, Fall 2010.
- Rapid Prototyping Workshop: Operating Hardware and software of Z650 Machine, by Gulf Services & Industrial Supplies Co LLC, Oman, Fall 2010.
- Dynamic Simulator Workshop: Dynamic Simulator for Education, Process & Power Industries, by Business International Group LLC, Oman, January 2011.
- Intellectual Property and Innovation Workshop, by IBM International, Organized by The Public Establishment for Industrial Estates represented by Knowledge Oasis Muscat (KOM), Grand Hayatt Muscat, Oman, February 2011.
- Dubai Global Energy Forum (DGEF), Dubai International Convention and Exhibition Centre (DICEC), April 2013.
- The 15th Water, Energy, Technology, and Environment Exhibition (WETEX) 2013 that is organized by Dubai Electricity and Water Authority. Dubai International Convention and Exhibition Centre (DICEC), April 2013.
- Teacher Education Initiative Workshop, by Society for Information Technology and Teacher Training (SITE), Microsoft Partners in

Learning, Held on May 29th at Sharjah Higher Colleges of Technology, 2014.

- Distance Teaching Tool: Salasil Desktop Workshop, 2019.

## **SCIENTIFIC CONTRIBUTIONS**

- **Ph.D. Dissertation “Defense Hole System Design for Multi-axial Stresses by Combined Stereolithography, Photoelasticity, Image Processing and FEA”. Published by: Bell & Howell Information & Learning, Ann Arbor, Michigan, 2000.**
- **Master Thesis “Simulation of Liquid Metal Solidification Applied to Axially Symmetric Region (case study) ”.**
- **Supervised three PhD Students and 11 MSc Students.**
- **Publications:**

### Journal Papers and Chapter in Edited Book

1. **S. N. Akour**, J. F. Nayfeh and D. W. Nicholson, “Enhanced RGB-Photoelasticity Technique for Fringe Orders 0-5”, Journal of Engineering, Vol. 11 No. 2, pp. 155-166, 2001.
2. **S. N. Akour** and J. F. Nayfeh, “Failure of Internally Threaded Structure, Case Study: Valve Center-Spool”, Journal of Mechanical Engineering Science, vol. 216, pp 1157-1163, 2002.
3. **S. N. Akour**, J. F. Nayfeh and D. W. Nicholson, “Design of Defense Hole System for Shear Loaded plate”, The Journal of Strain Analysis for Engineering Design, Vol. 38 No. 6, pp 507-518, 2003.
4. Montasser Tahat, **Salih Akour**, Saad Habali and Jamal Nayfeh, “Defense Hole system Analysis About A Finite Plate With Rivet Joints Subjected to Biaxial Loads”, Mu'tah Journal, Vol. 18 No.1, pp. 131-149, 2003.
5. **Salih Akour**, Jamal Nayfeh and Khaled Asfar, “Numerical and Perturbation Analysis of Dynamic Post-buckling of Rectangular Laminated Plates”. International Journal of Space Structures, vol. 19, no. 2, pp 85-95, 2004.
6. **S. N. Akour** and J. F. Nayfeh, “Thermally Induced Displacement in Simply-Supported Laminates”, International Journal of Structural Stability and Dynamics, Vol. 5, No. 1, pp 1–19, 2005.

7. K. R. Asfar and **S. N. Akour**, "Optimization Analysis of Impact Viscous Damper for Controlling Self-Excited Vibration", Journal of Vibration and Control, vol. 11, no. 1, pp 103-120, 2005.
8. **Salih N. Akour**, Mohammed A. Fayyad and Jamal F. Nayfeh, "Finite Element Analyses of Two Anti-rotational Designs of Implant Fixtures", Implant Dentistry, vol. 14, no. 1, pp 77-81, 2005.
9. Montasser Tahat, **Salih Akour**, Saad Habali and Jamal Nayfeh, "Optimization of Defense Hole System for Biaxial Loaded Plate with Three Coaxial Holes" Advances in Structural Engineering Vol. 8, No. 2, pp 117-128, 2005.
10. Montasser Tahat, **Salih Akour**, Saad Habali and Jamal Nayfeh, "Design Of Defense Hole System For Biaxially-loaded Plate with a Single Central Hole", Mu'tah Journal, Vol. 20, No. 1, pp 27-43, 2005.
11. **Salih N. Akour** and M. A. Jarrah, "Experimental and Numerical Analysis of Natural Convection For Al-5.5% Cu Alloy", Journal of Material Processing and Technology, Vol. 164-165, No. 4, pp 1479-1486, 2005.
12. **Salih Akour** and Jamal Nayfeh, "Nonlinear Dynamics of Polar-Orthotropic Circular Plate", International Journal of Structural Stability and Dynamics, Vol. 6, No. 2, pp 1-16, 2006.
13. **Salih Akour**, J. F. Nayfeh and D. W. Nicholson, "Defense Hole Design for Shear Dominant Loaded Plate", International Journal of Applied Mechanics, Vol. 2, No. 2, pp 381-398, June 2010.
14. **Salih Akour**, "Dynamics of Nonlinear Beam on Elastic Foundation", Lecture Notes in Engineering and Computer Science, Vol. 2184, No.1, pp 1427-1433, 2010.
15. **Salih Akour** and Hussein Maaitah, "Effect of Core Material Stiffness on Sandwich Panel Behavior Beyond the Yield Limit", Lecture Notes in Engineering and Computer Science, Vol. 2184, No. 1, pp 1321-1330, 2010.
16. **Salih Akour**, Mohammad Al-Husban and Musa O. Abdalla, "Design and Optimization of Defense Hole System for Uniaxially Loaded Laminates", Evon Abu-Taieh, Asim El-Sheikh and Mostafa Jafari \* (Ed.), Technology, Engineering and Management in Aviation: Advancements and Discoveries, Publisher: IGI-Global, USA, Chapter 6, pp 129-150, 2011.

17. **Salih Akour**, Mohammad Al-Husban and Jamal Nayfeh, "Design and Optimization of Defense Hole System for Hybrid Loaded Laminate", Evon Abu-Taieh, Asim El-Sheikh and Mostafa Jafari\* (Ed.), Technology, Engineering and Management in Aviation: Advancements and Discoveries, Publisher: IGI-Global, USA, Chapter 7, pp 151-160, 2011.
18. Mohammad Al-Husban, **Salih Akour** and Jamal Nayfeh, "Design and Optimization of Defense Hole System for Shear Loaded Laminate", Evon Abu-Taieh, Asim El-Sheikh and Mostafa Jafari\* (Ed.), Technology, Engineering and Management in Aviation: Advancements and Discoveries, Publisher: IGI-Global, USA, Chapter 8, pp 161-170, 2011.
19. **Salih Akour** and Hussein Zaal Maaitah, "Effect of Core Thickness on Load Carrying Capacity of Sandwich Panel Behavior Beyond Yield Limit", Evon Abu-Taieh, Asim El-Sheikh and Mostafa Jafari\* (Ed.), Technology, Engineering and Management in Aviation: Advancements and Discoveries, Publisher: IGI-Global, USA, Chapter 9, pp 171-181, 2011.
20. **Salih Akour**, J. F. Nayfeh, "Defense Hole Design for Uniaxial Dominant Hybrid Load for Infinite Plate", International Journal of Applied Mechanics. Vol. 3, No. 3, pp. 607-623, 2011.
21. **Salih Akour** and Hussein Zaal Maaitah, "Finite Element Analysis of Loading Area Effect on Sandwich Panel Behaviour Beyond the Yield Limit" Dr. Farzad Ebrahim (Ed.), Finite Element Analysis - New Trends and Developments, Chapter 16, pp. 352-376, INTECH Europe Publisher.
22. **Salih Akour**, "Parametric Study of Nonlinear Beam Vibration Resting on Linear Elastic Foundation", Journal of Mechanical Engineering and Automation, Vol. 2, No. 6, pp. 114-134, 2012.
23. **Salih Akour** and Mohammad Al-Husban, "Design and optimization of defense hole system for biaxial-loaded composite laminates", Journal of Materials: Design and Applications, Vol. 231 No. 3, pp. 272-284, 2017.
24. **Salih Akour**, Dynamic Response of Composite Plate Subjected to Sudden Heat Flux. Modern Applied Science, Vol. 11 No. 12, pp. 36-47, 2017.
25. **Salih N. Akour**, Mohammed Al-Heymari, Talha Ahmed and Kamel Ali Khalil, Experimental and theoretical investigation of micro wind

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\* Nobel prize winner for 2007

turbine for low wind speed regions, *Renewable Energy*, , vol. 116, issue PA, pp. 215-223, 2018.

26. **Akour, S.**, & Maaitah, H., Sandwich Panel Behavior for Core Loading Beyond the Yield Limit. *Modern Applied Science*, Vol.12, No. 3, pp. 117-131, 2018.
27. **Salih Akour** and Anas Aref Al-Garalleh, Candidate Sites for Pumped Hydroelectric Energy Storage System in Jordan, *Modern Applied Science*, Vol.13, No. 2, pp. 116-131, 2019.
28. **Salih N Akour** and Hani Omar Bataineh, "Design Considerations of Wind Funnel Concentrator for Low Wind Speed Regions", *AIMS Energy*, Vol. 7, No. 6, pp 728-742, 2019.
29. **Salih N. Akour**, Farah Mohammed Alyassi, Haya Khalfan Alshamsi and Afra Majid Alowais, "Implementation of Micro-Climate Greenhouse for Hot and Arid Regions by Utilizing Geothermal Energy", *Acta Scientific Agriculture*, Vol. 3, No. 11, pp. 174-180, 2019.
30. **Salih N. Akour** and Mahmoud Azmi Ata Abo Mhaisen, "Parametric Design Analysis of Elliptical Shroud Profile", *AIMS Energy*, Vol. 9, No. 6, pp 1147-1169, 2021.

#### Conference Paper

1. **Salih Akour** and Jamal Nayfeh, "Numerical Analysis of Chaotic Behavior of Post-Buckled Laminated Composite Plates", Ninth International Congress on Sound and Vibration (ICSV9), Orlando, Florida, 2002.
2. **Salih Akour** and Jamal Nayfeh, "Nonlinear Vibration of Circular Orthotropic Thin Plate", Tenth International Congress on Sound and Vibration (ICSV10), Stockholm, pp. 2071-2078, 2003.
3. **Salih Akour**, "Effect of Excitation Amplitude on Dynamics of Post-Buckled Rectangular Composite Plate" Tenth International Congress on Sound and Vibration (ICSV10), Stockholm, pp 2407-2414, 2003.
4. Montasser Tahat, **Salih Akour**, Saad Habali and Jamal Nayfeh, "Optimization of Stress Concentrations Around a central Circular Hole In Biaxially-Loaded Plate" "8<sup>th</sup> Cairo University International Conference on Mechanical Design and Production (MDP - 8) Cairo-Egypt, January 4- 6, pp 533-540, 2004.

5. **Salih N. Akour** and M. A. Jarrah, "Experimental and Numerical Analysis of Natural Convection For Al-5.5% Cu Alloy", COMMENT2005, The Worldwide Congress on Materials and Manufacturing Engineering and Technology, May 2005, Gliwice-Wista, Poland.
6. **Salih Akour**, Mohammad Al-Husban and Jamal Nayfeh, "Design and Optimization of Defense Hole System for Hybrid Loaded Laminate", International Conference of Aviation Technology, Engineering and Management, New Orleans, Louisiana, USA, March 2010.
7. Mohammad Al-Husban, **Salih Akour** and Jamal Nayfeh, "Design and Optimization of Defense Hole System for Shear Loaded Laminate", International Conference of Aviation Technology, Engineering and Management, New Orleans, Louisiana, USA, March 2010.
8. **Salih Akour** and Hussein Maaitah, "Effect of Core Material Stiffness on Sandwich Panel Behavior Beyond the Yield Limit", The 2010 International Conference of Mechanical Engineering, Imperial College, London, UK, Jun, 2010.
9. **Salih Akour**, "Dynamics of Nonlinear Beam on Elastic Foundation", The 2010 International Conference of Mechanical Engineering, Imperial College, London, UK, Jun, 2010.
10. **Salih Akour**, Mohammad Al-Husban and Musa O. Abdalla, "Design and Optimization of Stress Relief System for Uniaxially Loaded Laminates", International Conference on Applied Mechanics, Material and Manufacturing, Muscat, Oman, December 2010.
11. Jamal Nayfeh and **Salih Akour**, "Defense Hole Design Optimization for Uniaxial Dominant Hybrid Load for Infinite Plates", International Conference on Industry, Engineering, and Management Systems ( IEMS Conference), International Palms Resort and Conference Center, Cocoa Beach, Florida, USA , March 27-30, 2011.
12. **Salih Akour**, Student: Anees Al-Subhi, Loay Al-Azri, Said Al-Aufi, Khalfan Al-Bahri, and Haitham Al-Saeedi, "Design And Implementation Of Sheet Metal Blanking Die, Indentation Die and Bending Die" 1st National Symposium on Engineering Final Year Project (1st NSEFYP), University of Nizwa, Nizwa, Oman, May 2011.
13. **Salih Akour** and Anas Aref Al-Garalleh, "Candidate Sites for Pumped Hydroelectric Energy Storage System in Jordan",

“EuroSciCon Conference on Sustainable and Renewable Energy Research 2018”, August 13-14, 2018 at Paris, France.

14. **Salih N Akour** and Hani Omar Batatineh, “Parametric Analysis of Wind Funnel Concentrator”, 2nd International Conference on Green & Sustainable Chemistry, July 15, 2019, Zurich, Switzerland.

#### Registered Patents

1. **Salih Akour**, Elliptical Anti-Rotational Dental Implant Fixture, Hashemite Kingdom of Jordan Official Gazette, Vol 530, page 19, February 2014. Jordan Patent No. 2742, **WIPO** No. 2011290, <https://patentscope.wipo.int/search/en/result.jsf>.
2. **Salih Akour**, Pipe Holding and Turning Device, Hashemite Kingdom of Jordan Official Gazette, Vol 572, page 17, September 2015. Jordan Patent No. 2905, **WIPO** No. 2011291, <https://patentscope.wipo.int/search/en/result.jsf>.

#### **FUNDED RESEARCH**

- Design and Implementation of “Towards net zero Energy house for UAE climate”, Founded by Sharjah Industrial Sector, 200,000 AED. April 2014
- Design and Implementation of “Solar Absorption Air Conditioning System for UAE Climate” Founded by HH Shek Dr. Sulat Bin Mohammed Al Qassimi and local industry, 263,000 AED, March 2014.
- “Automation of Photoelasticity”, Joint Research, Dr. Salih Akour, University of Jordan (UJ) and Dr. Jamal Nayfeh, University of Central Florida (UCF), Funded by UJ and UCF, \$80,000, 2002-2010.
- “Design and Manufacturing of Remotely Piloted Vehicle”, Funded by Jordan Army and Jordan University of Science and Technology, \$50,000, 1991-1994.

- “Design and manufacturing of Solar Car”, Funded by ‘King Abdullah II Design and Development Bureau’ and “University of Jordan”, \$50,000, 2002.
- “Design and Implementation of ISO-Corner”, Highest Council of Science and Technology & Prefabricated buildings Co. (MANNI PreFab) - Jordan, 50,000\$, 2005-2007.
- “Analysis and Simulation of Dental Implant”, University of Central Florida, 5000\$, 2003-2004.
- “Road Sign Board Production Process Improvement”, Industrial Innovation Center, Oman, 75,000\$, 2010-2011.

## **ON-GOING PROJECTS**

- Automation of Photoelasticity.
- Hydroelectric Energy Storage System.
- Wind Concentration and Funneling Systems.
- Airborne Wind Turbine

## **AFFILIATIONS**

- Phi-Kappa-Phi Honor Society.
- Golden Key International Honor Society
- International Association of Engineers (IAENG)
- Microsoft Faculty Fellow.
- Jordan Engineers Association (JEA).
- American Society of Mechanical Engineers (ASME), 1999-2007.
- Society of Manufacturing Engineers (SME), 1999-2004.
- Member of editorial advisory board of The RPD (Rapid Product Development) Magazine, Published By: RAPITECH Solutions Inc.
- Patent Referee for the Ministry of Industry and Trading, Jordan.

*Prof. Salih Akour*

- Referee for Journal of Sound and Vibration.
- Referee of International Journal of Structural Stability and Dynamics.
- Referee for the Journal of Microwave Power and Electromagnetic Energy (JMPEE).
- Referee for The Jordan Journal of Mechanical and Industrial Engineering, Jordan.
- Referee for The Journal of Engineering Research, SQU, Oman.
- Referee for Yanbu Journal of Engineering and Science (YJES), Yanbu Industrial College (YIC), kingdom of Saudi Arabia.
- Referee of International Mechanical Engineering Conference, Scientific committee, JEA.
- Referee for Seventh International Conference on Composite Science & Technology (ICCST7)
- Referee for Twenty-first International Offshore and Polar Engineering Conference, International Society of Offshore and Polar Engineering (ISOPE), Maui, USA, June 19-24, 2011

### **JOURNAL HONORARY EDITORIAL BOARD MEMBER**

- International Journal of Aeronautics and Aerospace.
- Acta Science Agriculture.
- Journal of Crop Technology and Agricultural Science

### **INTERNATIONAL AND NATIONAL CONFERENCE ORGANIZING / ADVISORY BOARD COMMITTEE**

- 2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology, December 2021, Istanbul, **Turkey**.
- WCASET 2019; 17th - World Conference on Applied Science, Engineering and Technology, Jakarta, **Indonesia**.
- Global Warming 2019; 2nd World Congress on Global Warming & Climate Change, Kuala Lumpur, **Malaysia**.

- WCAMIE 2019; World Congress on Automobile, Mechanical and Industrial Engineering Berlin, **Germany**.
- WCASET 19; 19th World Conference on Applied Science Engineering and Technology, Bangkok, **Thailand**.
- WCSCRM 2019; Stem Cells and Regenerative Medicine, Paris, **France**.
- EngiTek 2020; 1st International Conference on Electrical, Biomedical and Nuclear Engineering Technologies (ElectriTek 2020), Track: Energy Systems and Nuclear Engineering (ESNE), Irbid, **Jordan**.
- 2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-2021), International Advisory Committee, April, 2021 in Istanbul, **Turkey**.

## **AWARDS AND RECOGNITIONS**

- **Distinguished Scientist in Mechanical Engineering**, Awarded by Venus International Foundation, 2019.
- **Recognized as Renowned Worldwide Energy Scholar and Thought Leader**, among Scholars from 44 countries that include USA, Russia, China, Japan, etc., by the **International Strategic Foresight Group**, through their publication titled: **Big Question of the Time: The World Speaks**, 2016.
- **Airborne Wind Turbine** invention is recognized by the **United Nations Technology Monitor (TM) for the Pacific** (includes USA, Asia and Australia). Documented in the **New and Renewable Energy News Journal** that is issued by TM, 2015.
- **Education Leadership Award, Best Professor in Sustainable & Renewable Energy Engineering**, Awarded by **Asian Education Leadership Awards**, Awarded in 27<sup>th</sup> September 2014.
- *Jubilee Medal* for outstanding achievements and involvement in the **worldwide Congress COMMENT2005**, awarded in the 16<sup>th</sup> of May 2005.
- **Outstanding Graduate Student Fellowship**, awarded by **University of Central Florida**, 1999/2000.

- **Assistantship as Graduate Teaching Assistant**, awarded by **University of Central Florida**, 1997-2000.

## **HONORS**

- International Distinguished Scholar Honor Society, 2018
- Ranked as Renowned Worldwide Energy Scholar and Thought Leader, 2016.
- *Golden Key* International Honor Society, 2014
- *Phi-Kappa-Phi* Honor Society, 2000.
- *Jubilee Medal* for outstanding achievements and involvement in the worldwide Congress *COMMENT2005*, awarded in the 16<sup>th</sup> of May 2005.
- Ranking the second on the B.Sc. degree.
- Ranking the First on the M.Sc. degree.
- Ranking the First on the PhD degree.

## **SKILLS**

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- Distance Teaching Platforms and Tools: Microsoft Teams, Zoom, Salasil Desktop.
- Computer Languages: FORTRAN, QuickBasic and Basic.
- Computer Systems: WINDOWS, UNIX.
- CAD/CAM and FEM Software: SLA-250, I-DEAS, Pro/E, AUTOCAD, ANSYS.
- Scientific Software: MathCAD, MATLAB, IMSL.
- Experimental Equipment: Data acquisition systems, strain-gauges, RGB Photoelasticity, FaroArm (Portable CMM Machine).
- Rapid Prototyping Equipment: SLA 250, Z650.