



Tareq Samir Zaki Salameh

(Curriculum Vitae)

University of Sharjah
Sustainable and Renewable Energy Engineering Department
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Personal Information

Date of birth: 17/8/1977 (Libya).

Status: Married, 2 daughters.

Languages: Fluent in written and spoken English & Arabic.

Personality: Hard worker enjoying under-pressure jobs, persuasive, self-motivated, creative, quick learner, having high communication skills, quick to adjust to job requirements, and effective team member.

Hobbies: Chess, computer and sports.

Career Objective

Implementing and enhancing what I have gained from my education, work experience, and skills in furthering my career and education in the field of mechanical engineering, thermal sciences, energy sciences, control and computer science, proving myself worthy, especially in research and design of new state of art equipment.

Education

Ph.D. Degree in Energy Sciences, December 2012.

Lund University, Sweden.

Dissertation Title

An experimental and numerical study of heat transfer and pressure drop on the bend surface of a U-duct.

The objectives have been to study the heat transfer and pressure drop across the outer wall of the bend part (tip side of U-duct (corresponds to tip wall of gas turbine blade)) for smooth and ribbed bends both experimentally and numerically.

Licentiate Degree in Energy Sciences, June 2010.

Lund University, Sweden.

Licentiate Thesis Title

An experimental and numerical study of heat transfer and pressure drop on the bend surface of a U-duct.

The objectives have been to study the heat transfer and pressure drop across the outer wall of the bend part (tip side of U-duct (corresponds to tip wall of gas turbine blade)) for smooth and ribbed bends both experimentally and numerically.

Master's Degree in Mechanical Engineering, June 2006.

University of Jordan, Amman, Jordan.

Master's Thesis Title

Trickle flow down an inclined plate covered with a wire screen.

The objectives have been to find the velocity of the flow at various locations along the plate, at various flow rates and tilt angles, both experimentally and numerically by using ANSYS -CFX program.

Bachelor of Science in Mechanical Engineering, July 2000.

Applied Science University, Amman, Jordan.

Graduation Project

Automation of sun tracking system.

The aim of the project has been to use the programmable logic control (PLC) for control the surface rotate about horizontal east-west axis with continuous adjustment, to minimize the angle of incidence and maximize the incident beam radiation. The project has been successful.

Courses during Ph.D.

- Heat and Mass Transfer
- Laser-Based Combustion Diagnostics
- Thermal Radiation
- Numerical Heat Transfer
- Fuel Cell Technology
- Project in Energy Technology (Geothermal Energy)
- Fluid Dynamics in Reciprocating Engines
- Combustion Fluid Mechanics
- Gas Turbine Heat Transfer
- Photovoltaic System

Courses during Master Degree

- Advanced Engineering Measurements
- Advanced Fluid Mechanics
- Engineering Mathematic
- Combustion
- Continuum Mechanics
- Computer Aided Design and Modeling
- Research Methodology
- Numerical Analysis
- Mechanical Vibration

Special Courses during Bachelor Degree

- HVAC Systems Design & Installation
- Machine Design
- Solar Energy
- Engineering Economy
- Internal Combustion Engines
- Workshops
- Manufacturing Process
- Automatic Control
- Scientific Research and Technical Writing
- Computer Aided Drawings (Autocad,2D, 3D)
- Automation

Engineering Associated skills

- Design and modification of mechanical systems and machinery
- Finite element method , modeling ,and simulation
- Digital data acquisition and signal analysis
- Processing, engineering, presentation, and modeling of experimental data
- Good electrical wiring expertise
- General workshop expertise
- Understanding, technical analysis, problem solving, and operating complicated mechanical systems with/without computerized control panels and data acquisition systems.

Computer Skills

Highly skilled in most of computer related aspects including:

- All Windows, DOS versions environments
- Powerful knowledge of internet and search ability
- Mathematical programs (Matlab)
- Programming in FORTRAN and C++
- Microsoft Applications (Word, Excel, PowerPoint, Outlook,)
- Computer software installation
- CFD software (CFX, ANSYS, Fluent, ICEM)
- ANSYS Workbench and Pro engineering programs

Experience

University of Sharjah, Sharjah, United Arab Emirates, 9/2013 - Present <http://www.sharjah.ac.ae/>

- Working as an Assistant Professor at the Sustainable and Renewable Energy Engineering (SREE) Department.
- Teaching the following courses: Introduction to Energy Science and Technology, Solar PV System (and lab), Heat Transfer (and lab), Design for Energy Efficiency, Wind Energy Systems (and lab), Hydroelectric Energy Systems.
- Supervision the graduation students to perform their senior design project and give them the advice and guide in practices field.
- Examination and correction the reports for graduation students during do their senior design project.
- Working as academic advisor for the sustainable and renewable energy engineering students (SREE) and help them during the registration period.
- Participating and joining the students in many academic trip to the some factories that manufacture and assembly the photovoltaic solar cells and system (PVCs) in UAE.
- Participating in many activities and events in UAE by projects done by my students.
- Conducting workshop in ANSYS for engineering students.
- Preparing the course file at the end of each semester for my courses according to ABET accreditation.
- Preparing the course assessment according to ABET accreditation.
- Conducting and performing research in renewable energy and energy sciences
- Participating as scientific committee and presenter in the international forum for engineering educational (IFEE 2015) which hold in the University of Sharjah.
- Follow the supplier companies that provide the educational equipment to the labs based on our requirement in the department.
- Participating in many committee related to the administrative task in the department.

Lund University, Lund Sweden, 4/2008-6/2013 <http://www.lu.se/>

- Studying different technology courses such as Gas Turbine Heat Transfer, Heat and Mass Transfer, Laser-Based Combustion Diagnostics, Thermal Radiation, Numerical Heat Transfer, Fuel Cell Technology and Photovoltaic System.
- Writing report for geothermal energy in Jordan as project in energy technology.
- Performing many research related to cooling inside gas turbine technology.
- Attending and made presentation in ASME Turbo Expo conferences for 2010, 2011 and 2012 respectively and ASME IMECE 2012.
- Publish licentiate thesis, doctoral dissertation, journal paper and conference paper

Hashemite University, Zarqa Jordan, 11/2002- 3/2008 <http://www.hu.edu.jo/>

Lab Engineer and Research Assistant (full time).

Lab. Engineer & Research Assistant in the Mechanical Engineering Department since the establishment of the Faculty of Engineering in the Hashemite University carrying out the following tasks:

- Preparing and studying several tenders concerning the faculty of engineering laboratory equipments and other facilities, dealing with major lab. Teach. Providers like GUNT, TQ, National Instruments, STEM ISI, P.A. Hilton, Prodit, Cussons, Armfield ...etc.
- Inspection, first time operation and installation of a long list of laboratory equipment
- Supervision and taught Mechanical Drawing (Pro Engineering), Mechanical Vibrations, Heat transfer and Internal combustion engine labs
- Supervision of Thermodynamics and Strength of Materials labs.
- Supervision and administrate the Renewable Energy Center.
- Preparing lab sheets and theoretical background of experiments for students
- Technical & experimental supervision of graduation projects for students, which includes sensor/controller (strain gauges, thermocouples, pressure transducers, alarm units, temperature controllers...etc) installation and interfacing with computerized data-loggers
- Operating test equipment for standard/non-standard testing of materials & machine components
- Most of the research tasks experimentally/technically involving operating sophisticated machinery
- Processing/analysis of research collected data.
- Participated project of geothermal energy in Jordan funded by Abdul-Hameed Shoman organization.

Applied Science University, Amman, Jordan, 10/2000- 11/2002 <http://www.asu.edu.jo/ASU/default.aspx>

- Supervision of the following labs: Thermodynamics, Mechanical Vibrations, Mechanical Drawing (AutoCAD), Strength of Materials, Internal combustion engine, Heat transfer and Fluid Mechanics.
- Supervision and administrate the Renewable Energy Center.
- Technical & experimental supervision of graduation projects for students, which includes sensor/controller (strain gauges, thermocouples, pressure transducers, alarm units, temperature controllers...etc) installation and interfacing with computerized data-loggers

Unity Trading Establishment (HYUNDAI), 7/1999-9/1999 <http://www.hyundai.com/jo/ar/main/>

Two month practical training during my university education including the following:

- Gasoline (Banzine) section.
- Diesel section.
- Heating Ventilation and Air Conditioning (HVAC) system in automobile.
- Steering balance section.

- Electrical system in automobile
- Body section
- Reception and service customer section

Al-Abssi Workshop 2/2002-6/2002

Four month practical training during my university education in sewing machine maintenance

Conference Organizations, participation and activity

- Attended as guest the Middle East Energy Storage Forum in Dubai on 24th – 25th May 2017
- Evaluated the projects in the 11th Annual Scientific Research Forum on 16th of May
- Evaluated the projects in the renewable challenge in SREE department on 10th of May 2017
- Attended and participate with one paper in Seventh International Conference on Modeling, Simulation and Applied Optimization (ICMASO'17) which hold in Sharjah on 4th- 6th of April 2017.
- Attended and participate with two paper in Fifth International Conference on Water, Energy and Environment (ICWEE/5) which hold in Sharjah on 28th February – 2nd March 2017.
- Attended RetrofitTech Summit & Awards UAE conference which hold in Dubai on 20th- 21th of March 2017.
- Attended the workshop for sustainability in operation and maintenance management: challenges and opportunities on 26th – 27th of February 2017.
- Attended and coordinate the students in Solar Middle East Exhibition which hold in Dubai on 14th -16th of February 2017.
- Nominated the best proposals submitted to the Think Science competition in energy field on February 2017.
- Presented the work of research group for the 10th scientific research forum between 2th – 5th of May 2016.
- Conducted tutorial sessions-CFD using ANSYS-Fluent software for SREE students in the university on 26th of April.
- Judged all energy projects participation in the Think Science competition on 16th- 19th of April 2016.
- Participated and attended the Think Science competition on 16th- 19th of April 2016.
- Invited as speaker in the First German-UAE Workshop on Energy and Water in the Gulf Cooperation Council Countries (EWGCC) which hold in Ras Al Khaimah, UAE between 12th- 14th of April 2016.
- Presented the University of Sharjah, SREE Department and the work of our senior design students in Emarat TV during Rooh Alithad program on 13th of March 2016.
- Nominated the best proposals submitted to the Think Science competition in both energy and safety fields on February 2016.
- Attended ABU DHABI SUUSTAINABILITY WEEK on 18th- 21th of January 2015.
- Attended and participated in the International Conference on Energy, Water and Environmental Sciences which held on Ras Al Khaimah, UAE between 15th- 17th of December 2015.
- Supervised, coordinated and arranged the trip to Masdar Institute during the Masdar Open Day on 28th of November 2015.
- Supervised the sustainable and renewable energy club in the university since 15th of September 2015.
- Attended and completed successfully training in introduction to ANSYS Mechanical 24th-25th of May 2015.

- Participation in the Third United Arab Emirates Undergraduate Student Research Competition, 21th of May, 2015.
- Judged 11 teams in the fourth renewable challenge at University of Sharjah 20th of May 2015.
- Attended and completed successfully training in introductory training to ANSYS CFD 17th-19th of May 2015.
- Participation in registration forum (workshop for registration guidance) 10th of May 2015.
- Prepared and presented the poster for the 9th scientific research forum, 2th – 5th of May 2015.
- Conducted training and workshop course-CFD using ANSYS-Fluent software 26th of April 2015.
- Participation in Green Week at Water, Energy, Technology and Environment Exhibition (WETEX) 21th - 27th of April 2015.
- Attended and completed workshop in COMSOL multiphysics 5th of April 2015.
- Presented the research paper in 7th International Forum on Engineering Education (IFEE 2015) Jointly with: 3rd Towards Sustainable Development International Conference (3rd TSDIC 2015) 19th of March 2015.
- Member of scientific committees: 7th International Forum on Engineering Education (IFEE 2015) Jointly with: 3rd Towards Sustainable Development International Conference (3rd TSDIC 2015) 17th – 19th of March 2015.
- Attended the First Sharjah Regional Workshop on Computational and Engineering organized by Applied Physics Department at University Of Sharjah 3th – 5th of March 2015.
- Attended and completed workshop in COMSOL multiphysics 21th of September 2014.
- Teaching and supervising the teams in The Renewable Challenge on 15th of May 2014.
- Administrating and participation in academic trip to the Mulk Company on 4th of May 2014.
- Conducted training and workshop course-CFD using ANSYS software 20th of April 2014.
- Participation in innovators at University of Sharjah on April 2014.
- Participation in The Abu Dhabi Company for Onshore Oil Operations ADCO's 1st Mechanical Forum on 5th of March 2014.
- Participation in the Food and Environment Forum at Kalba / University of Sharjah on 17th of February 2014.
- Participation in the 3rd Sharjah Festival and Conference of Science on 5th of February 2014.
- Teaching and supervising the teams in The Renewable Challenge on 26th of December 2013.
- Participation in the Masdar Institute Day with cooperation with the communication college 10th of December 2013.
- Administrating and participation in academic trip to the Microsol Factory at Al Ain on 10th of November 2013.
- Participation in Infiniti Performance Engineering Academy targeting students within their final year of Graduation in Dubai on 30th of October 2013.
- Participated and presented paper in the ASME Turbo Expo 2012: GT2012, Copenhagen (2012)
- Participated and presented paper in the ASME Turbo Expo 2011: GT2011, Vancouver (2011)
- Participated and presented paper in the ASME Turbo Expo 2010: Power for Land, Sea and Air GT2010, Glasgow (2010)
- Member of the Organizing Committee: The Third International Conference on Thermal Engineering: Theory and Applications, Amman (2007)
- Giving Ansys training course in Albath Center, Amman (2006)
- Participated and made presentation in the first Jordanian -German Winter Academy , Amman (2006)

Memberships

Jordan Engineers Association - Mechanical Engineering Division
 American Society of Mechanical Engineers (ASME).

Awards, scholarship, honor and appreciation

- Certificate of appreciation for Supervised the sustainable and renewable energy club in the university from 2015 to 2017
- Certificate of appreciation for nominated the best proposals submitted to the Think Science competition in energy field February 2017.
- Certificate of appreciation for judged and evaluated all energy projects participation in the Think Science competition on 16th- 19th of April 2016.
- Certificate of appreciation for judged 11 teams in the fourth Renewable Challenge at University of Sharjah on 20th of May 2015.
- Certificate of appreciation for teaching and supervising the teams in the Renewable Challenge at University of Sharjah on 15th of May 2014
- Certificate of appreciation for participation in the Food and Environment Forum at Kalba / University of Sharjah on 17th of February 2014.
- Certificate of appreciation for teaching and supervising the teams in the Renewable Challenge at University of Sharjah on 26th of December 2013.
- Student scholarship program from International Gas Turbine Institute (IGTI) and ASME, September 2012.
- Full scholarship from Erasmus Munds External Program Lot 3 for PhD study in Lund University, Sweden October (2007).
- Certificate of appreciation award winner of the second scientific week of engineering at the Hashemite University, May 2005.
- Certificate of appreciation award winner of the first scientific week of engineering at the Hashemite University, May, 2004.

Scientific Journal

Guest editor for International Journal of Rotating Machinery Rotating Machinery in Renewable Energy Systems

Reviewer for the following international journals:

1. Journal of Enhanced Heat Transfer.
2. Thermal Science of Engineering Application (ASME).
3. Journal Heat and Mass Transfer (Springer).
4. Advances in Building Energy Research.
5. International journal of Power engineering.

Papers, Conferences and Thesis Publication

- Chaouki. Ghenai, Tareq Salameh, Adel Merabet and Abdul Kadir Hamid, Modeling and Optimization of Hybrid Solar-Diesel-Battery Power System, Seventh International Conference on Modeling, Simulation and Applied Optimization, Sharjah, UAE, 2017
- Chaouki. Ghenai and Tareq Salameh, Simulation and Optimization of Hybrid Renewable Energy System for Desalination Plant, Fifth International Conference on Water, Energy, and Environment (ICWEE/5), Sharjah, UAE, 2017
- Chaouki. Ghenai, Tareq Salameh and Abrar Inayat, Modeling Water Consumption for Biomass-fired Steam Power Plant, Fifth International Conference on Water, Energy, and Environment (ICWEE/5), Sharjah, UAE 2017

- Adel Merabet, Labib Labib, Amer Ghias, Chaouki Ghenai and Tareq Salameh Robust Feedback Linearizing Control With Sliding Mode Compensation for a Grid-Connected Photovoltaic Inverter System Under Unbalanced Grid Voltages, IEEE Journal of Photovoltaics, 1,1-11, March 2017
- Monadhil Al-chaderchi, K. Sopain, M. A. Alghoul and T. Salameh, Experimental study of the effect of fully shading on the Solar PV module performance, 17th World Renewable Energy Congress, Bahrain, 4th – 8th December 2016.
- Chaouki Ghenai, Tareq Salameh and Isam Janajreh, Numerical Modeling of Biomass and Solid Waste-Based on Syngas Fuel Combustion, proceeding for publish in International Journal of Thermal and Environmental Engineering (IJTEE), 11, 2, 2016.
- Chaouki Ghenai, Tareq Salameh and Isam Janajreh, Numerical Modeling of Biomass and Solid Waste-Based on Syngas Fuel Combustion, International Conference on Energy, Water & Environmental Sciences 2015, Ras Al Khaimah, UAE, December,15-16, 2015.
- Chaouki Ghenai and Tareq Salameh, Modeling Water Consumption for Thermal Power Plants, 13th International Conference of the Arab Academy of Sciences on Climate Change and Energy-Water Nexus, Amman, Jordan, December 5-6, 2015.
- Anis Allaguia, Tareq Salameh and Hussain Alawadhi, One-pot Synthesis of Composite NiO Nanomaterials/Graphitic Carbon Flakes with Contact Glow Discharge Electrolysis for Electrochemical Supercapacitors, International Journal of Energy Research, Volume 39, Issue 12, pages 1689–1697, 10 October 2015
- Anis Allaguia, Tareq Salameh and Hussain Alawadhi, CuO Dendritic Structures Synthesized by Bipolar Electrochemical Process in Deionized Water for Electrochemical Energy Storage, Journal of Electroanalytical Chemistry, 750, pp. 107-103, 2015.
- T. Salameh, A H Alamia, B. Sunden, Experimental Investigation of the Effect of Various-Shaped Ribs on Local Heat Transfer on the Outer Wall of the Turning Portion of a U-Channel inside Solar Air Heater, journal Heat and Mass Transfer, Springer, April, 2015.
- Tareq Salameh and Chaouki Ghenai, Technology Enhanced Learning in Sustainable and Renewable Energy Engineering Department at University of Sharjah, 7th International Forum on Engineering Education (IFEE2015) Jointly with: 3rd Towards Sustainable Development International Conference (3rd TSDIC2015), Sharjah, UAE, March,17-19.
- Chaouki Ghenai and Tareq Salameh, Incorporation Of Academic Service Learning In Science, Technology, Engineering, Math (STEM) Courses, 7th International Forum on Engineering Education (IFEE2015) Jointly with: 3rd Towards Sustainable Development International Conference (3rd TSDIC2015), Sharjah, UAE, March,17-19.
- T. Salameh, B. Sunden, A Numerical Investigation of Heat Transfer in a Smooth Bend Part of a U-Duct, International Journal of Numerical Methods for Heat and Fluid Flow, 24, pp. 137–147, 2013.
- L.Wang, T. Salameh, B. Sunden, An Experimental Study of Heat Transfer on a Smooth U-Bend Channel Surface, IMECE2012-87295, in Proceedings of the ASME 2012 International Mechanical Engineering Congress & Exposition IMECE 2012 , Houston, Texas, USA, November 9-15, 2012.
- T. Salameh, B. Sunden, Numerical Investigation of Convective Heat Transfer and Pressure Drop for Ribbed Surfaces in the Bend Part of a U-Duct, IMECE2012-85621, in Proceedings of the ASME 2012 International Mechanical Engineering Congress & Exposition IMECE 2012 , Houston, Texas, USA, November 9-15, 2012.
- T. Salameh, B. Sunden, Comparison of Continuous and Truncated Ribs on Internal Blade Tip Cooling, ASME GT2010-22139, in Proceeding of ASME Turbo Expo 2012: Power for Land, Sea and Air GT2012, Copenhagen, Denmark, June 11-15.

- T. Salameh, B. Sunden, Effects of Ribs On Internal Blade-Tip cooling, ASME GT2011-45118, in Proceeding of ASME Turbo Expo 2011, Vancouver, Canada, June 6-10.
- T. Salameh, An Experimental and Numerical Study of Heat Transfer and Pressure Drop on the Bend Surface of a U-Duct, Licentiate of Engineering Thesis, ISRN LUTMDN/TMHP-10/7068-SE, Department of Energy Sciences, Lund University, Sweden, 2010.
- T. Salameh, B. Sunden, On Numerical simulation of Flow and Heat Transfer of the Bend Part of a U-duct, in Proceeding of 11th International Conference on Advance Computational Method and Experimental Measurements in Heat Transfer, Tallinn, Estonia. WIT Press, UK, July 2010.
- T. Salameh, B. Sunden, An Experimental Study of Heat Transfer and Pressure Drop on the Bend Surface of a U-duct, ASME GT2010-22139, in Proceeding of ASME Turbo Expo 2010: Power for Land, Sea and Air GT2010, Glasgow, UK, June 14-18.