



CURRICULUM VITAE

Malik Alamayreh

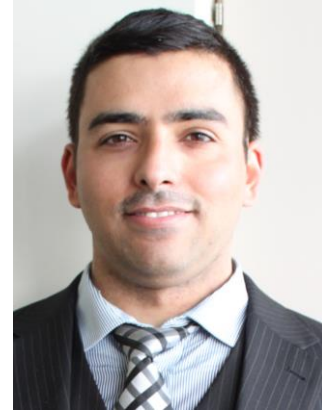
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1. Personal Data

Date of Birth: 09/10/1981

Nationality: Jordan

2. Education

- **Dr. Eng. in Mechanical Engineering**, 2013
Friedrich-Alexander-University Erlangen-Nürnberg, Bayern, Germany.
- **M. Sc. in Mechanical Engineering**, 2007
University of Jordan, Jordan
- **B. Sc. in Mechanical Engineering**, 2004
University of Jordan, Jordan

3. Ph.D. Dissertation

Numerical and Experimental Investigations of the Flow Field of Ionized Gases with Applications to High-Performance Electronics and oil shale gasification
Friedrich-Alexander-University Erlangen-Nürnberg, Bayern, Germany.

4. Employment

Academic Positions

Assistant professor in the Alternative energy department and the Mechanical Engineering department – Al-Zaytoonah University of Jordan, Jordan, (9/2013 – present)



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Administrative Positions

Chairman of the Alternative Energy Technology – Al-Zaytoonah University of Jordan

Chairman of the Mechanical Engineering Department – Al-Zaytoonah University of Jordan

5. Research Interests

Alternative energy, solar energy, PV system , Fluid mechanics, Thermodynamics

6. Membership in Scientific Societies and Associations

JEA Member, European Mechanics Society Member

7. Honors and Awards

3th prize of supervising the undergraduate engineer from Jordanian Engineering Association

8. Fellowships and Scholarships

12/06 -14/8/2017 CICOPS Scholarship to be a Post-doctoral Researcher visitor in hydraulic department , University of Pavia, Italy.

07/2010–01/03/2013 Alexander Mayer-Stiftung
Doctoral Thesis

October 17-21, 2011 Colorado School of Mines to participate in the 31st Oil Shale Symposium, Golden, Colorado in USA.

October 3 - 14, 2011 International Center for Theoretical Physics to participate in the Joint ICTP-IAEA Workshop on Plasma, Trieste, Italy.

October 12- 16, 2009 DFG (Deutsche Forschungsgemeinschaft) support to participate in German-Jordanian Workshop "Energy and Alternative Fuels, Amman, Jordan.

August 28- September 1, 2006 DFG to participant in a Technical Conference in Mechatronics and Microsystems Goslar Germany.



9. Teaching Experience

Undergraduate Courses

Solar workshop, Energy conversion, Power plants ,Numerical methods for engineers, Thermodynamics I , Thermodynamics II.Fluid Mechanics.Heat transfer . I.Heat transfer . II.Mechanical Engineering Measurement
Engineering Drawing,Design of Hydraulic and Pneumatic Systems
Design of Air Conditioning an Refrigeration Systems I. Design of Air Conditioning an Refrigeration Systems II. Fuel and Combustion. Introduction to the Mechanical Systems for the Architecture Engineers.

10. Professional and Scientific Meetings

- The conference on renewable and energy efficiency for desert regions, GCREEDER , April 3-5 , 2018, Amman, Jordan.
- The American Society of Thermal and Fluids Engineers (ASTFE) Conference and 4th International Workshop on Heat Transfer (IWHT) located and held April 2-5, 2017 in Las Vegas, USA.
- The 5th conference on renewables and energy efficiency for desert regions, GCREEDER, April 4-6, 2016, Amman, Jordan.
- Short course “Preparing tests and evaluation of exams performance “, February 16-18 , 2016. AlZaytoonah University. Amman Jordan.
- International Conference on Mechanical, Aeronautical and Manufacturing Engineering, December, 15-16, 2014. Sudney, Australia.
- Hybrid electric vehicle course, Jordan Engineers Association, Amman, July 2014.
- 31st Oil Shale Symposium October 17-21, Golden, Colorado in USA, 2011.
- Euromech Fluid mechanics conference 8. Bad Reichenhall, Germany, 2010.
- Conference of Laser method in fluid mechanics GALA 18 ,Cottbus, Germany, 2010
- Conference of Laser methods in fluid mechanics GALA 17, Erlangen, Germany, 2009.
- 21st International Conference on Numerical Simulation of Plasmas (ICNSP) October 6-9 2009. Lisbon ,Portugal
- Short course: Design Of Turbomachinery Systems, CWW Erlangen, March 5-9 2009.
- Short course: Computational fluid dynamic NUMET 2010, CWW Erlangen February 22-25, 2009.



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11. Participation in or organization of curricular and/or extra-curricular activities

12. 25/1/2018 to 24/2/2018 (Revit mep) , Autodesk company, Amman , Jordan.
13. 26/4/2015 to 28/4/2015 (Photovoltaic Professional Training Workshop) , European Tempus project , University of Cyprus.
14. 3/10/2011 to 14/10/2011 (Advanced workshop on fusion and plasma physics), International centre for theoretical physics , Trieste/ Italy
15. 29/8/2014- to 4/9/2014 (Hybrid cars systems) Jordan Engineers Association, Amman Jordan.
16. 02/5/2009-to 5/5/2009 (Hydraulic pumps design) LSTM Erlangen , University of Erlangen , Germany.
17. 22/02/2010-to 25/02/2010 (NUMET 2010, Computational fluid mechanics) CWW Erlangen University, Germany.
18. 6/10/2010 to 7/10/2010 (Linux system) Regionales Rechen Zentrum Erlangen, Germany.
19. 31/07/2009 to 01/08/2009 (LabView Basic 2) Regionales Rechen Zentrum Erlangen, Germany.
20. 24/07/2009 to 25/07/2009 (LabView Basic 1) Regionales Rechen Zentrum Erlangen, Germany.
21. 6/8/2007 to 12/9/2007 (Modern Air conditioning and refrigeration systems technology) Automotive Technology Academy , Amman, Jordan

22. Publications**Book:**

- M. Al-Amayreh , 2014, Ionised gases applications for high-performance electronics, LAP LAMBERT Academic Publishing, Saarbrücken, Germany, ISBN number 978-3-659-54035-6. (order from website amazon.com)

Papers:

- M. Al-Amayreh, T. AbdelHadi, E. Al-Khatib, A. Oweimer, H. Nassar. "Experimental Investigation of Oil Shale Pyrolysis Utilizing Solar Thermal Energy", Accepted for publication in The 6th Global Conference on Renewables and Energy Efficiency for Desert Regions (GCREEDER) paper no (1202), to be held in Amman, Jordan in April 3-5th 2018.
- Malik Al-Amayreh, Andrea fenocchi, Stefano Sibilla, Fluid flow dynamics around a yawed woody log inside an open channel Part 1 : Numerical and analytical analysis. submitted to the Journal of Fluids and Structures, Elsevier Jan 2018.
- Malik Al-Amayreh, Tareq barhom, NabeeL Abo Shaban and Abdulla n. Oilmat, "Design of High Efficiency Aggregate Air Cooling System " 2nd Thermal and Fluids Engineering Conference and 4th International Workshop on Heat Transfer, ISSN: 2379-1748, ISBN: 978-1-56700-430-4. Las Vegas, USA. april, 2017.
- M. Al-Amayreh, A. Al-Salaymeh, M. Kilani, "Numerical Study of a Butterfly Valve for Vibration Analysis and Reduction " World Academy of Science, Engineering and Technology International Journal of Mechanical, Aerospace, Industrial and Mechatronics Engineering Vol:8 No:12, pp 1767- 1771, 2014.
- H. Hofmann, C. Weindl, M. Al-Amayreh, O. Nilsson. 2012. Arc Movement inside an AC/DC Circuit Breaker Working with a Novel Method of Arc Guiding: Part I – Experiments, Examination and Analysis. IEEE on plasma science, vol. 40, no. 8, pp. 2028- 2034, 2012.



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- M.Al-Amayreh, H.Hofmann, O.Nilsson, C.Weindl, A. Delgado.2012. “Arc Movement inside an AC/DC Circuit Breaker Working With a Novel Method of Arc Guiding: Part II: Optical Imaging Method and Numerical Analysis”. IEEE on plasma science, vol. 40, no. 8, pp. 2035- 2044, 2012.
- M. Al-Amayreh, A. Al-salaymeh, M. Kilani, A. delgado. .”Numerical prediction of a bi-directional micro thermal flow sensor”. Sensors and transducers Journal. Vol. 132. Issue 9, pp. 25-39. 2011.
- M. Al-Amayreh , A. Al-Salaymeh, V.Jovicic, A.Delgado.“ Gasification of Jordanian oil shale using nitrogen non-thermal plasma”. 31st Oil Shale Symposium October 17-21, 2011 Golden, Colorado in USA. <http://www.costar-mines.org/oss/31/>
- M.Al-Amayreh,S.Ausmier, H.Hofmann, O.Nilsson, C.Weindl, A. Delgado “Study of the Flow inside an industrial electrical breaker, experimental analysis “.Published in the conference of Laser methods in fluid mechanics .GALA 17 .8-10 September 2009 , Page 43.
- M.Al-Amayreh, A. Al-Salaymeh, M. Kilani and A.Al-Halhouli. “Numerical Prediction of a BI-Directional Micro Hot Wire Anemometer using three Parallel wires “Proceedings of the Third International Conference on Thermal Engineering: Theory and Applications, May 21-23, 2007, Amman, Jordan.
- Al-Halhouli, M. Kilani, M. Al-Amayreh, A. Al-Salaymeh, S. Büttgenbach“Parametric Study of Single Disk Viscous Micropump”. The International Conference on Bio-Nanotechnology, U.A.E. November 18-21 2006, Page 193.