

Maher M. A. AL - Maghalseh

Electrical Power Engineering

Renewable Energy Engineering

Contact information:

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Personal Information	<ul style="list-style-type: none">▪ Nationality: Palestinian▪ Birthdate: 17/6/1982▪ Marital status: Married
Education	<ul style="list-style-type: none">▪ Northumbria University-United Kingdome (UK) -2014 Degree awarded: Doctor of Philosophy (PhD) Academic Areas: Renewable Energy Engineering▪ Durham University –United Kingdom (UK) - 2010/2011 Degree awarded: Master of Engineering (MSc) Academic Areas: New and Renewable Energy▪ Palestine Polytechnic University-Palestine - 2001/2006 Degree awarded: Bachelor of Engineering (BSc) Academic Areas: Electrical Engineering-Industrial Automation Engineering
Membership of professional bodies	<ul style="list-style-type: none">▪ Membership at the Palestinian Young Academy (PYA).▪ Membership at Jordanian Engineers Association, Power Engineering-Renewable Energy Engineering.▪ Membership at Palestinian Ford Foundation International Society.▪ KOICA (Korai International Cooperation Agency) Alumni Association Palestine (KAAP).
Awards and Scholarships	<ul style="list-style-type: none">▪ The best renewable energy exploders award, Friends of the Earth Palestine and PENGON, April 2018.▪ The Best Applied Research Award, The Palestinian Islamic Bank Research Awards, 1th December 2017.▪ The Emirate Energy Award, for the Design and implementation of Bio-gas plant for Al-Jebrini Company. October 2017.▪ Palestinian Scientist by the Higher Council for innovation and Excellence. The second National Forum for Scientists, 20-22 of July 2017, Ramallah- Palestine.▪ Zamala Fellowship Program for Scientific Research-organized by Taawon organization and funded by Bank of Palestine 2016.▪ A scholarship from the UK government to study the PhD at Northumbria University at Newcastle 2011-2014.

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- A scholarship from **Ford Foundation Fellowships Program** to study a master degree in new and renewable Energy at Durham University 2010.
 - **Academic excellence** from Palestine University during the Bachelor Degree of Industrial Automation Engineering at Palestine Polytechnic University 2001-2006.

**Currently
Employment**

- **Assistant Professor** at The Electrical Engineering Department at the College of Engineering-Palestine Polytechnic University (PPU).
- **Researcher at Renewable Energy and Environmental Research Unit (REERU).**
- **Project Coordinator of Erasmus+ project** (Improving Governance Practices at the Palestinian Higher Education Institutions).
- **A member of Steering Committee** for two projects (544644, 544339) that are funded by EU through **TEMPUS** program.

**Conferences and
Journals**

- **Member of the Editorial Board of** Palestine Technical University - Kadoorie Research Journal (PTUKRJ), ISSN (2307-809X electronic, 2307-8081 print).
- **Member** of Scientific Committee at The 14th international conference on the smart cities: Improving Quality of life using ICT & IoT. 9-11 October 2017, Irbid-Jordan.
- **Speaker** at Second National Forum of Scholars, Higher Council for Innovation & Excellence-Rammalah-Palestine, 2017
- **Speaker** at Sustainable electricity generation for the Mena-region, 4-5 October 2016, Amman.
- **Reviewer** for International Journal of Heat and Mass Transfer, Elsevier Journal.
- **Reviewer** for Archives of Electrical Engineering, Scopus Journal. Publisher: Polish Academy of Sciences.
- **Reviewer** for Advances in Science, Technology and Engineering Systems Journal (ASTESJ).
- **Reviewer** for International Journal of Emerging Electric Power Systems- IJEEPS.
- **Reviewer** for Iranian Journal of Science and Technology, Transactions of Mechanical Engineering
- **Evaluator and reviewer** of International cooperation in Science and Research between the Federal Ministry of Education and Research of the Federal Republic of Germany and the Palestine Liberation Organization for the benefit of the Palestinian Authority- 2016.
- **Member** of Scientific Committee at The 4th international conference on energy and environmental protection in sustainable development ICEEP IV, 6-7 April 2016.
- **Chairman** at The 5th conference on renewables and energy efficiency for desert regions GCREEDER 2016, Amman-Jordan, April 4th – 6th 2016.
- **Chairman** at The Third Students' Innovation Conference (SIC III), organized by PPU, 2 May 2016.
- **Coordinator** of Scientific Committee at The 4th international

conference on energy and environmental protection in sustainable development ICEEP III, 2009.

Work

Experience

- **Northumbria University.** October 2011-September 2014.
Demonstrator at school of Engineering and Environment.
 - **Palestine Polytechnic University.** October 2007 – July 2010.
Research Assistance and Coordinator of Power Electronic and Signal Processing Research Unit.
 - **Program Coordinator in Southern Electricity Company.** October 2006 – July 2010 (part-time job).
 - **UNRWA - IT Coordinator.** April 2007-November 2007 (part-time job)
 - **Teacher Assistant in College of Applied Sciences at Palestine Polytechnic University.** September 2006 to September 2007. (Part-time job).
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Publications

- 1- **Sawalha, Hassan, Maher Maghalseh, Janna Qutaina, Kholoud Junaidi, and Eldon R. Rene.** "Removal of hydrogen sulfide from biogas using activated carbon synthesized from different locally available biomass wastes-a case study from Palestine." *Bioengineered* 11, no. 1 (2020): 607-618.
 - 2- **Maher M.A. Al-Maghalseh and Khamid Mahkomove,** *Methods of Heat Transfer Intensification in PCM Thermal Storage Systems: Renewable and Sustainable Energy Reviews* 92, 62-94, 2018.
 - 3- **Maher Al-Maghalseh,** "Generation unit sizing, economic analysis of grid-connected and standalone PV power plant". *International Journal of Energy Applications and Technologies*, Volume 6, Issue 1, Page No 1-7, 2019.
 - 4- **Ishaq Sider, Maher Al-Maghalseh, Zaid Alnather,** "Energy Consumption Evaluation of Air Cooled Chiller with Cold Storage System Powered by Photovoltaic Modules". *Advances in Science, Technology and Engineering Systems Journal* Vol. 3, No. 4, 276-283, 2019.
 - 5- **Maher Al-Maghalseh,** "Techno-economic assessment of biogas energy from animal wastes in central areas of Palestine: Bethlehem perspective". *International Journal of Energy Applications and Technologies*, Volume 5, Issue 3, Page No 119-126, 2018.
 - 6- **M. M.A. Al-Maghalseh,** "The Impacts of Distribution Generators' Size and Location on Power Efficiency and Voltage Profile in Radial LV Networks". *Advances in Science, Technology and Engineering Systems Journal*, Volume 3, Issue 4, Page No 276-283, 2018.
 - 7- **M. M. A. Al-Maghalseh,** "Evaluating the Reliability worth Indices of Electrical Medium Voltage Network: Case Study," *Procedia Computer Science*, vol. 130, pp. 744-752, 2018/01/01/ 2018.
 - 8- **MM Al-Maghalseh,** Experimental study to investigate the effect of dust and temperature on PV cells performance, *Scopus, Jordan Journal of Mechanical & Industrial*
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Engineering, 2018.

- 9- **Maher M. Al-Maghalseh, Alaa K. Abutemeha**, Modeling a hybrid system for electrical generation and wastewater treatment using photovoltaic and fuel cells, Scopus, Desalination and Water Treatment Journal, 100 (250-257), 250–257, 2017.
- 10- **Maher Al-Maghalseh**, Design of grid-connected and standalone PV power plant with the capacity of 1.5MW, 7th International Conference on Advanced Technologies, Antalya, 2018.
- 11- **MM Al-Maghalseh**, Investigate the Natural Convection Heat Transfer in A PCM Thermal Storage System Using ANSYS/FLUENT, Scopus, Jordan Journal of Mechanical & Industrial Engineering 11 (4), 2017
- 12- **M Al-Maghalseh, S Odeh, A Saleh**, Optimal sizing and allocation of DGs for real power loss reduction and voltage profile improvement in radial LV networks, IEEE, Smart Cities: Improving Quality of Life Using ICT & IoT (HONET-ICT), 2017.
- 13- **M Al-Maghalseh, W Saleh**, Design and cost analysis of biogas based power plant: Jenin perspective, IEEE, Smart Cities: Improving Quality of Life Using ICT & IoT (HONET-ICT), 2017.
- 14- **Maher Al-Maghalseh, R Sarraj, S Alqam**, Techno-Economic Feasibility Study of Biogas Based Power Plant: Bethlehem Perspective, International Research Conference on Sustainable Energy, Engineering, 2017.
- 15- **Maher M Al-Maghalseh, Elias M Maharmeh**, Economic and Technical Analysis of Distributed Generation Connection: A Wind Farm Case Study, Journal of Procedia Computer Science- Elsevier, 27-APR-2016.
- 16- **Harmonic Elimination for industrial Zone Using Passive Filter: Case Study**, The third international conference on Environmental Design and innovation 2016, Amman-Jordan 17-19 May 2016.

Teaching Courses

- Renewable Energy and Integration to the Grid- Master Course
 - Renewable Energy Applications- Master Course
 - Mechatronics Application for Renewable Energy-Master Course
 - Smart Grid-Master Course
 - Energy Generations-Master Course
 - Renewable Energy-Bachelor course
 - Renewable Energy Resources- Bachelor course
 - Renewable Energy Application- Bachelor course
 - Power System Analysis 1- Bachelor course
 - Power System Analysis 2- Bachelor course
 - Distribution Systems- Bachelor course
 - Power Plants- Bachelor course
 - Electrical Circuits- Bachelor course
 - Applied Electricity- Bachelor course
 - Electrical Machines 1- Bachelor course
 - Electrical Machines2- Bachelor course
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**Certificate and
Training**

- **Trainer** in the renewable energy system and resources for the vocational training centres at Palestine.
 - **Trainer in Smart Grids systems for the teachers and researchers at Al-Quds University.**
 - **MATLAB SIMULINK in Drives and Power Electronics** – organized by Cachan University/France and PESPRU at Palestine Polytechnic University 18-21 May 2009.
 - **Digital Signal Processing DSP** – organized by Cachan University/France and Higher Institute for Applied Science and Technology (HIAST) - Damascus, Syria. 18-28/07/2009.
 - **ADVANCE VOCATIONAL TRAINING FOR INSTRUCTORS (PALESTINE)**, Korea International Organization Agency (KOICA) - Seoul - Korea, from 16 October to 13 November 2008.
 - **INSTRUMENTIVE VIRTUALLY AVEC LAP VIEW**– Palmand University –Summer School - Lebanon 18 Aug to 26 Aug complete 50 hours.
 - **PROPOSAL PROJECT WRITING** – Palestine Polytechnic University, 1 MAY to 10 June 2009, Complete about 40 hours.
 - **WINDOWS SERVER 2003 ADMINISTRATOR** - AL-Quds Open University, Hebron Area, 1 April to 1 June 2006 Complete about 70 hours of training.
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