**Dr.-Ing. Murad Al-Omary**

German Jordanian University, 11180 Amman ✉ Murad.Omary@gju.edu.jo

# Curriculum Vitae

## Personal Information

Name : Murad Al-Omary
Gender : Male
Date of Birth : 9th August 1987
Place of Birth : As Sarih, Jordan
Nationality : Jordanian

## Educational Background

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|---|---|
| 10/2017-12/2019 | **Chemnitz University of Technology / Germany**<br>Ph.D. in Electrical Engineering.<br>• Thesis Title: "Accuracy Improvement of Predictive Neural Networks for Managing Energy in Solar Powered Wireless Sensor Nodes". |
| 06/2010-08/2012 | **Yarmouk University / Jordan**<br>M.Sc. in Electrical Power Engineering.<br>• Thesis Title: "Optimal Design and Analysis of Hybrid Energy Systems for some Study Cases in Jordan". |
| 09/2005-05/2010 | **Yarmouk University / Jordan**<br>B.Sc. in Electrical Power Engineering.<br>• Graduation Project: "Speed Control of Induction Motors". |
| 09/2004-06/2005 | **Jordanian High School Examination, Scientific Stream / Ministry of Education.** |

## Work Experience

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| 02/2020-Now | **Assistant Professor** at German Jordanian University / School of Natural Resources Engineering / Department of Energy Engineering. |
| Since 11/2016 | **Reviewer** at Journal of Renewable and Sustainable Energy Reviews (RSER), published by Elsevier. |
| 10/2017-12/2019 | **Researcher** at Chemnitz University of Technology / Professorship of Electrical Measurements and Sensor Technology. |

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|---|---|
| 02/2014-01/2017 | **Researcher** at Technical University of Hamburg-Harburg / Institute of Environmental Engineering and Energy Economics + Institute of Electrical Power and Energy Technology. |
| 06/2011-01/2014 | **Teaching and Research Assistant** at German Jordanian University / School of National Resources Engineering and Management. |
| 09/2010-05/2011 | **Laboratories Instructor** at Yarmouk University / Hijjawi Faculty for Engineering Technology / Department of Electrical Power Engineering. |
| 10/2009-12/2009 | **Trainee** at Irbid District Electrical Company (IDECO), Jordan. |
| 06/2009-09/2009 | **Trainee** at National Electric Power Company (NEPCO), Jordan. |

## Training & Workshops

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|---|---|
| 06/2009-08/2009 | **Training Courses in the field of electric power system** (200 hours), at the Electric Training Center<br>• Specifications of Transmission and Distribution Networks.<br>• Control of Electric Machines.<br>• PLC (Programmable Logic Control).<br>• Circuit Breakers: Operation and Maintenance.<br>• Electrical Transformer: Operational, Maintenance and Testing.<br>• Design of Cables.<br>• The Bases of Household Electrical Wiring.<br>• High Voltage Laboratory and Transmission Line Simulation. |
| 10/2008-12/2008 | **MATLAB & Simulink** (30 hours) at Rania Queen Center for Jordanian Studies and Community Service / Yarmouk University. |
| 08/2019 | **Scientific Writing Workshop** (6 hours) at Chemnitz University of Technology. |

## Skills

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|---|---|
| Languages | • Arabic ★★★★★<br>• English ★★★★☆<br>• German ★★★☆☆ |
| Software | • Good Command with Windows Applications and Internet.<br>• Good Command with Electrical Power Softwares such as (Power World, MATLAB, Multisim, Tina, Circuit Maker, Digsilent Power Factory, NEPLAN, Homer, Arduino). |

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## Membership

Since 07/2010

- JEA (Jordan Engineering Association).
- IEEE (Institution of Electrical and Electronics Engineering).
- JSSR (Jordan Society for Scientific Research).

## Publications

Journals

- **Murad Al-Omary**, Martin Kaltschmitt and Christian Becker "Electricity System in Jordan: Status and Prospects", *Renewable and Sustainable Energy Reviews*; Vol. 81, part 2, Jan 2018, Pages 2398-2409.

- Albatayneh, A.; Jaradat, M.; **Al-Omary, M.**; Zaquot, M. "Evaluation of Coupling PV and Air Conditioning vs. Solar Cooling Systems—Case Study from Jordan", *Applied Sciences*; 2021, 11, 511.

- Aiman Albatayneh, Tarek Tayara, Mustafa Jaradat, **Murad Al-Omary**, Muna Hindiyeh, Dariusz Alterman, Manal Ishbeytah "Optimum Building Design Variables in a Warm Saharan Mediterranean Climate Zone", *International Journal of Photoenergy*; 2021.

- Aiman Albatayneh, Haya Atieh, Mustafa Jaradat, **Murad Al-Omary**, Maha Zaquot, Adel Juaidi, Ramez Abdallah, Francisco Manzano-Agugliaro "The Impact of Modern Artificial Lighting on the Optimum Window-to-Wall Ratio of Residential Buildings in Jordan", *Applied Sciences*; 2021, 11(13), 5888.

- Muna Hindiyeh, Aiman Albatayneh, Rashed Altarawneh, Mustafa Jaradat, **Murad Al-Omary**, Qasem Abdelal, Tarek Tayara, Osama Khalil, Adel Juaidi, Ramez Abdallah, Partick Dutournié, Mejdi Jeguirim "Sea Level Rise Mitigation by Global Sea Water Desalination Using Renewable-Energy-Powered Plants", *Sustaiability*; 2021, 13(17), 9552.

Conferences

- **Murad Al-Omary**, Khaoula Hassini, Ahmed Fakhfakh and Olfa Kanoun "Prediction of Energy in Solar Powered Wireless Sensors Using Artificial Neural Network", *16th International multi-conference on Systems, Signals and Devices*, 21-24 Mar, 2019 Istanbul, Turkey (IEEE Conference Paper).

- **Murad Al-Omary**, Rafat Aljarrah, Aiman Albatayneh and Mustafa Jaradat "A Composite Moving Average Prediction Algorithm for

Predicting Energy in Solar Powered Wireless Sensor Nodes", *18th International multi-conference on Systems, Signals and Devices*, 22-25 Mar, 2021 Monastir, Tunisia (IEEE Conference Paper).

## References

- **Prof. Olfa Kanoun**
  **Position:** Head of Institute of Electrical Measurements and Sensors Technology / Technical University of Chemnitz.
  **E-Mail :** olfa.kanoun@etit.tu-chemnitz.de
- **Prof. Muwaffaq Alomoush**
  **Position:** Vice President for Academic Issues in Yarmouk University.
  **E-Mail :** ma@yu.edu.jo

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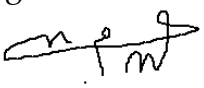

Amman, 24.01.2022

Place and date