

# Dr. Hani Muhsen

Assistant Professor

**Address** Amman, Jordan

**Phone** 00962785662811 / 00962790581097

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**Date of birth** 1982-12-04

## Membership

IEEE member, IEEE PELS (Power Electronics Society), JEA Member (Jordan Engineers Association)

## LinkedIn

<https://www.linkedin.com/in/dr-eng-hani-muhsen-9b011060/>



*Hani Muhsen was born in Jordan on December 04, 1982. He received the Bachelor of Engineering in Electrical Engineering from Palestine Polytechnic University in 2005 with excellent evaluation. He obtained a German Academic Exchange Scholarship (DAAD) for studying M.Sc. during 2006-2009 in Jordan University of Science and Technology. He received a PhD scholarship from DAAD to obtain the PhD degree from Germany and he fulfilled the PhD requirements in Feb. 2016. He started working as assistant professor at German Jordanian University on 3.10.2016 in the applied technical school in the department of Mechatronics Engineering. His research interests focus on power conversion, electric and hybrid vehicles, renewable energy, smart grids and power electronics.*

## Experience

- 2005-09 - 2006-07 **Teaching and research assistant**  
*Palestine Polytechnic University*
- 2008-09 - 2010-09 **Technical Instructor**  
*Wadi Alseer Technical College*
- 2010-09 - 2011-04 **Lecturer**  
*Tabuk University*
- 2016-10 - present **Assistant Professor**  
*German Jordanian University*
- 2017-03 - 2017-10 **Exchange Coordinator**  
*German Jordanian University*
- 2017-10 - present **Dean's Assistant for Quality Assurance**  
*German Jordanian University*

## Education

- 2000-09 - 2005-06 **Palestine Polytechnic University**
- BEng. Electrical Engineering/ Industrial Automation Engineering
  - GPA: 87.6%
- 2006-09 - 2009-10 **Jordan University of Science and Technology**
- MSc. Electrical Engineering/ Communications and Electronics  
GPA: 83.6%
- 2013-03 - 2016-05 **Technical University Chemnitz**
- PhD of Engineering. Electrical Engineering/ Power Electronics and Electromagnetic Comparability

Evaluation: With honor

## Publications

- 2010 Dib, Nihad I., Sotirios K. Goudos, and Hani Muhsen. "Application of Taguchi's optimization method and self-adaptive differential evolution to the synthesis of linear antenna arrays." *Progress In Electromagnetics Research* 102 (2010): 159-180.
- 2015 Muhsen, Hani, Josef Lutz, and Sebastian Hiller. "Design and evaluation of gate drivers of SiC MOSFET." *PCIM Europe 2015; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management; Proceedings of. VDE, 2015.*
- 2015 Muhsen, Hani, and Sebastian Hiller. "A New Simplified Space Vector PWM Scheme for Two-Level Voltage Source Inverter." *PCIM Europe 2015; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management; Proceedings of. VDE, 2015.*
- 2015 Muhsen, Hani, Sebastian Hiller, and Josef Lutz. "Three-phase voltage source inverter using SiC MOSFETs —Design and Optimization." *Power Electronics and Applications (EPE'15 ECCE-Europe), 2015 17th European Conference on. IEEE, 2015.*
- 2015 A NEW STRATEGY FOR COMPENSATING THE DEAD - TIME IN CARRIER BASED PWM publication date Oct 28, 2015 publication description 18th INTERNATIONAL SYMPOSIUM on POWER ELECTRONICS - Ee 2015 NOVI SAD, SERBIA, October 28th - 30th, 2015 / IZDAVAČI
- 2015 Frankeser, Sophia, Hani Muhsen, and Josef Lutz. "Comparison of drivers for SiC-BJTs, Si-IGBTs and SiC-MOSFETs." *PCIM Europe 2015; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management; Proceedings of. VDE, 2015.*
- 2016 Muhsen, Hani. "Three-Phase Voltage Source Inverter with Very High Efficiency Based on SiC Devices." (2016). PhD Dissertation
- 2017-09 Ahmad Almuhtady, Hani Muhsen, Anas Atieh, Nidal Alshawawreh, Abdulaziz Kadri and Ali Ruziyeh. "Engineering-based Economical Evaluation of the Retired NiMH Batteries from Electric and Hybrid-Electric Vehicles in Jordan ." *ICTMEM 2017; International Conference on Trends in Mechanical Engineering and Manufacturing; 2017.*

## Courses

- 2014-03 - 2014-09 Scientific Writing and Presentation
- 2012-08 1st Qualinet Summer School on Quality Assessment
- 2017-02 The Socio-economics impacts of the implementation of renewable energy

## Languages

Arabic		Mother Tong
English		Excellent
German		Good

## Skills

Electrical and Electronic Software/ Matlab, LabVIEW, Simplorer, LTspice,...etc		Excellent
PCB Design and Soldering		Excellent