

## **Moien A. Omar**

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### **CURRENT POSITION**

**Assistant Professor at Electrical Engineering Department, An- Najah National University, August 2015 – Present.**

### **EDUCATION**

- **PhD. Energy Engineering, Catania University, Italy, November 2012 – February 2015.**  
“ Power Converters and Control for Grid Connected Microgrids under Unbalanced Operating Conditions.”
- **Clean Energy and Energy Conservation Engineering, An-Najah National University, Palestine 2006 –2008.**  
“ Computer Aided Design and Performance Evaluation of PV-Diesel Hybrid System.”
- **BSc. Electrical Engineering, An-Najah National University, Palestine, 1998 – 2002.**

### **WORK EXPERIENCE (Academic and non-academic)**

**Assistant Professor at Electrical Engineering Department, An-Najah National University, Nablus, West Bank, Palestine. August 2015 - Present.**

**Research assistant at Energy Research Center, An-Najah National University, Nablus, West Bank, Palestine. February 2004 – October 2012.**

### **CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS**

AC Microgrid Course, Aalborg University 2013.

### **COMPUTER SKILLS**

- MS Office 2010 including (Visio 2007).
- Matlab/Simulink.
- PLECS Power electronics software.

## **HONORS AND AWARDS**

- Full doctoral scholarship award at Catania University, Italy, PhD 2012- 2015, cooperation project with industry ST Microelectronics Ambition power project.
- Partial scholarship award, MSc. Clean energy and energy conservation engineering 2008.

## **COURSES TAUGHT:**

### **BACHELOR COURSES:**

- Power electronics.
- Electrical Machines for mechanical and mecatronics engineering departments.
- Electrical machines-I for electrical engineering department.
- Electrical machines-II for electrical engineering department.
- Special topics for power engineering.
- Laboratory of electrical machines.
- Laboratory of power system.

### **Graduate courses, “Master of power systems”**

- Economics of electrical power systems.
- Smart grids and distributed generation.
- Special topics for power engineering.

## **PUBLICATIONS**

### **REFEREED JOURNALS:**

- Moien Omar, **Control Scheme of Energy Storage Power Converter for Active and Reactive Power Balancing in Grid Connected PV Micro-Grids**, American Journal of Electrical Power and Energy Systems 2016.
- Moien Omar, Marwan Mahmoud, **"Grid connected PV- home systems in Palestine: a review on technical performance, effects and economic feasibility"** Renewable and Sustainable Energy Reviews, 2017.
- Moien Omar, Marwan Mahmoud, **"Economic evaluation of residential grid connected PV systems based on Net- Metering and Feed-in-Tariff schemes in Palestine"** INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH 8.4 (2018).
- Omar, Moien A., and Marwan M. Mahmoud. **"Design and simulation of a PV system operating in grid-connected and stand-alone modes for areas of daily grid blackouts."** International Journal of Photoenergy 2019 (2019).

- Omar, Moien Ali, and Marwan M. Mahmoud. "Temperature impacts on the performance parameters of grid-connected PV systems based on field measurements in Palestine." IET Renewable Power Generation 13.14 (2019): 2541-2548.
- Omar, Moien Ali, and Marwan M. Mahmoud. "Design and Simulation of DC/DC Boost Converter with Maximum Power Point Tracking for Grid Connected PV Inverter Considering the Nonlinearity of the PV Generator." International Journal on Energy Conversion (IRECON) 7 (6) (2019)
- Omar, Moien Ali. "Control Scheme of Photovoltaic Inverter for Voltage Improvement in Isolated AC Microgrids." International Review of Electrical Engineering (IREE) 15 (3) (2020)

## **REFERENCES**

Referees are available upon request.