



# Mohammed Al Badi

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## Education

PhD, Electrical and Computer Engineering, University of Waterloo, Canada, 2010  
M.Sc., Electrical Power Engineering, Aachen University of Technology, Germany, 2003  
B.Eng., Electrical & Electronics Engineering, Sultan Qaboos University, Oman, 2000.

## Academic Experience

Sultan Qaboos University, Oman, Head of Electrical and Computer Engineering Department, Jan 2019 - present  
Sultan Qaboos University, Oman, Associate Professor, May 2015- present  
Sultan Qaboos University, Oman, Assistant Head of Electrical and Computer Engineering Department, May - Dec 2018  
University of Waterloo, Canada, Visiting Associate Professor, Jun- Aug 2018  
University of Waterloo, Canada, Visiting Associate Professor, Aug 2016 - July 2017  
Sultan Qaboos University, Oman, Assistant Prof, Mar 2010- May 2015  
Sultan Qaboos University, Oman, Lecturer, Oct 2003- Feb 2010  
Sultan Qaboos University, Oman, Demonstrator, Dec 2000- Oct 2003

## Non-Academic Experience

WestEnergie und Verkehr GmbH, Erkelenz, Germany, Intern, Apr-Sep 2003.  
Petroleum Development Oman, Muscat, Oman, Drilling Engineer, Aug-Dec 2000.

## Certifications or Professional Registrations

## Current Membership in Professional Organizations

IEEE Senior Member

## Honors and Awards

2018: Certificate of Appreciation from Centre for Community Service and Continuing Education for conducting a short course entitled “Hands-on Practical training on Solar PV Systems” during 11-15 March 2018.  
2018: Letter of Appreciation from Independent Learning Centre at SQU for delivering the workshop “PV systems Design and Applications” during 24-26 Sep 2017.  
2017: Recognition as a Senior Member in Institute of Electrical and Electronics Engineering (IEEE), 7 December 2017.

## Service Activities



Assistant Head of Department, Acting Head of Department  
Renewable Energy theme coordinator in Independent Learning Centre  
Acting Director for Independent Learning Centre  
Invited Speaker, Media Interviews, Offered Workshops Academic Program Reviewer  
Editorial Board Membership, Reviewer for Qatar National Research  
Reviewer for several Journals and Conferences, Conference Session Chair, Special Session Chair

### **Selected Publications**

- 1- A. Moawwad, E. El-Saadany, M. El Moursi, M. H. Albadi, “Critical Loading Characterization for MTDC Converters using Trajectory Sensitivity Analysis”, IEEE Transactions on Power Delivery, Vol. 33, pp. 1962-1972, Aug 2018.
- 2- M. H. Albadi, A. H. Al Maghdri, A. S. Al Hinai, E. F. El-Saadany, M. S. Awladthani, S. Al Hinai, A. Al Jabri, K. Al Azani and A. Al Maqrashi, “Technical Loss Reduction in Rural Areas - The Case of Saih Al Khairat”, The Journal of Engineering Research, Vol. 15, No. 2, pp. 102-113, December 2018.
- 3- M. H. Albadi, Y. M. El-Rayani, E. F. El-Saadany, H. A. Al-Riyami, “Impact of Solar Power Projects on LMP and Transmission Losses in Oman”, Sustainable Energy Technologies and Assessments, Vol. 27, pp. 141–149, 2018.
- 4- N. Hosseinzadeh, A. Ashkezari, A. Chebli, and M. Albadi, “Development of an Enterprise Geographic Information System (GIS) Integration with Smart Grid”, Sustainable Energy, Grids and Networks, Vol. 14, pp. 25–34, June 2018.
- 5- M.H. Albadi, F.N. Al Farsi, N. Hosseinzadeh, A. H. Al Badi, “Effect of Considering Transmission Losses in Economic Dispatch – A Case Study of Oman’s Main Interconnected System”, The Journal of Engineering Research, Vol. 15, No. 1, pp. 1-13, 2018.

### **Professional Development Activities**

- The Complete Leadership Training Course, Gulf Innovation for Consulting and Training, Grand Millennium, Muscat, Oman, 16-20 Dec 2018  
Decision Making, Centre for Staff Development, Sultan Qaboos University, Muscat, Oman, 12-13 Nov 2018  
Introduction of CDIO initiative, Sultan Qaboos University, Muscat, Oman, 17-19 May 2016  
How to Teach Engineering Students Process Skills, Sultan Qaboos University, Muscat, Oman, 26-28 May 2015  
Power System Planning, Department of Electrical and Computer Engineering, Sultan Qaboos University, Muscat, Oman, 19-22 January 2015.  
Grid Connected and Off-grid Photovoltaics, Green Energy Summer School, Renewable Academy (RENAC) AG, Berlin – Germany, 25-29 August 2014.