

Curriculum Vitæ
MICHAEL H. JOHNSON

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EDUCATION

- Ph.D. in Electrical and Computer Engineering**, Purdue University, West Lafayette, Indiana.
Anticipated graduation May, 2017. Advisor: Dionysios C. Aliprantis
- 2012 **B.S. *summa cum laude* in Electrical Engineering**, Iowa State University, Ames.

PUBLICATIONS

Refereed Journal Articles

- 2013 H. Chen, **M. H. Johnson**, and D. C. Aliprantis, “Low-frequency AC transmission for offshore wind power,” *IEEE Trans. Power Del.*, vol. 28, no. 4, pp. 2236–2244, Oct. 2013

Conference Proceedings

- 2014 **M. H. Johnson** and D. C. Aliprantis, “Analysis and control of PMSG-based wind turbine with Vienna rectifier near current zero crossings,” in *Proc. IEEE Power & Energy Conf. at Illinois*, Champaign, IL, 28 Feb.–1 Mar. 2014, **selected as Best Paper**
- 2013 **M. H. Johnson**, H. Chen, and D. C. Aliprantis, “Offshore wind farm with DC collection system,” in *Proc. IEEE Power & Energy Conf. at Illinois*, Champaign, IL, 22–23 Feb. 2013, pp. 53–59

HONORS AND AWARDS

- 2014 Best Paper award, IEEE Power & Energy Conference at Illinois.
- 2011 Member, Tau Beta Pi engineering honor society.

GRANTS AND FELLOWSHIPS

- 2013 Recipient of the Beckman Fellowship, School of Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana.
- 2012 Fellow of NSF Integrative Graduate Education and Research Traineeship in Wind Energy Science, Engineering, and Policy at Iowa State University, Ames.

INVITED TALKS

- 2014 “Analysis and Control of PMSG-Based Wind Turbine with Vienna Rectifier,” IEEE Power Electronics Society Young Professionals Webinar, 17 Oct.

CONFERENCE ACTIVITY

Papers Presented

- 2014 “Low-frequency AC transmission for offshore wind power,” 2014 IEEE Power & Energy Society General Meeting, 27–31 Jul.

RESEARCH EXPERIENCE

- 2014–present **Graduate Research Assistant**
Alternative Energy Grid Integration and Systems Lab, Purdue University, West Lafayette, Indiana.
- 2012–2013 **Graduate Research Assistant**
Alternate Energy Grid Infrastructure and Systems Lab, Iowa State University, Ames.

INDUSTRY EXPERIENCE

- 2011 **Electrical Engineering Design Co-Op**
Omaha Public Power District, Ft. Calhoun Nuclear Generating Station, Blair, Nebraska
Created database of known replacements for discontinued components to speed work flow and avoid duplicate studies.
- 2010 **Relay Performance Intern**
ITC Midwest, Cedar Rapids, Iowa
Investigated low-voltage ride-through capability of wind turbines connected to ITC's network to assess compliance NERC standards culminating in a database of collected information.

MEMBERSHIPS–SOCIETIES

- Institute of Electrical and Electronics Engineers (IEEE)
2011 Student Member
- IEEE Societies
2014 IEEE Power Electronics Society
2011 IEEE Power & Energy Society

SERVICE TO PROFESSION

- 2014–present Reviewer, Electric Power Systems Research
2014–present Reviewer, IEEE Transactions on Power Electronics
2013–present Reviewer, IEEE Transactions on Energy Conversion
2013–present Reviewer, IEEE Transactions on Sustainable Energy

SERVICE TO UNIVERSITY

- 2013 Member, Organizing Committee. Workshop on Energy, Transportation, and Water Infrastructure: Policy and Social Perspectives, Iowa State University, Ames, 17–19 Jul.