

Dr. Aly Ahmed Aboulnaga

Assistant Professor

Personal Data:

Nationality | Egypt
Date of Hire | 29/11/2013
Date Rank Obtained | November, 2013
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Electrical Engineering	Power Electronics and drives	Illinois Institute Of Technology	Chicago, USA	2004
Masters (M.Sc.)	Electrical Engineering	Power Electronics and drives	Mansoura University	Mansoura, Egypt	2000
Bachelor (B.Sc.)	Electrical Engineering	Power Electronics and drives	Mansoura University	Mansoura, Egypt	1997

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Analysis and Experimental Validation of a Single-Phase Bridge Converter with By-Pass Thyristor Technique
Master	Generalized Theory of Magnetic Integration for Power Electronic Converters

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant professor, Electrical Engineering	College of Engineering, King Faisal University	KSA	From	2013
			To	2021
Senior design engineer	Philips Electronics North America	USA	From	2009
			To	2013
Electrical design engineer (Automotive Solid State Lighting)	Philips Electronics North America	USA	From	2004
			To	2009

Research Interests:

1. Power Electronics and Motor Drives
2. Solid State Lighting
3. Electromagnetic compatibility
4. Renewable Energy resources
5. Power System

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	A. A. Abounaga and R. Miller	Lighting driver and housing having internal electromagnetic shielding layer configured for direct connection to circuit ground," US Patent No. 9,920,909, Granted in 2018 for Philips Electronics.	2018	Click Here
2	A. A. Abounaga	Distributed solar network for air ventilation in the hybrid vehicles," 2nd International Conference and Exhibition on Automobile Engineering, Valencia, Spain, Sept. 2016, pp. 122-126.	2016	Click Here
3	A. A. Abounaga	Current Limiting Controlling for Power Supply, e.g. LED Driver, Having Automatic Reset," US Patent No. 2,329,578, Granted in 2014 for Philips Electronics.	2014	Click Here
4	A. A. Abounaga	Illumination Device with Electrical Variable Scattering Element," US Patent No. 8,471,498, Granted in 2012, for Philips Electronics.	2012	Click Here
5	A. A. Abounaga	Low Voltage Electronic Module Interface," US Patent No. 8,125,244, Granted in 2011, for Philips Electronics.	2011	Click Here

Language Proficiency:

1. Arabic
2. English
3. French