

**DR. MOHAMMED M. AL-HINDAWI***Assistant Professor, Dept. of Electrical and Computer Eng., King Abdulaziz University***Education**

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Electrical Power Engineering	Cairo University, Egypt	1981
MS	Electrical Power Engineering	Al-Azhar University, Egypt	1975
BS	Electrical Power Engineering	Al-Azhar University, Egypt	1969

**Academic Experience**

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title</i> <i>(Chair, Full or</i> <i>Coordinator, etc.)</i>	<i>Part Time</i>
1970	1975	E E Dept. Al-Azhar Univ.	TA/RA		Full time
1975	1976	E E Dept. Al-Azhar Univ.	Lecturer		Full time
1976	1982	King Abdulaziz University	Lecturer		Full time
1982	Date	King Abdulaziz University	Assistant Professor		Full time

**Non Academic Experience** *(including Consultations)*

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position</i> <i>(Brief)</i>	<i>Description</i>	<i>Full or</i> <i>Part Time</i>
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**Funded Research Projects and Patents from the Past Five Years**

1. HiCi Research Funded Project, King Abdulaziz University, "Investigation Into The Stability of Complex Power Electronic Converters In Renewable Energy Applications," Grant no. (5-4-1432/HiCi), Completed, PI
2. HiCi Research Funded Project, King Abdulaziz University, "Ensuring Low Current Ripple In Power Converters for Renewable Energy and High Performance Applications," Grant no. (3-125-1433/HiCi), Running, PI
3. Funded Research Project, King Abdulaziz University, "Study, Develop, and Integration of High Efficiency Single-phase Transformer-less PV Grid-connected Micro-inverter with Different Types of PV Modules," Running.
4. Accepted Research Proposal: Strategic Research Project, King Abdulaziz City for Science and Technology KACST, "Develop of Control Strategies for Power Electronics Systems To Avoid Fast-Scale and Slow-Scale Instabilities," PI

**Certifications and Professional Registrations**

1. Registered Professional Engineer In Egypt.

**Current Membership in Professional Societies and Organizations**

<i>Society/Organization</i>	<i>Rank</i>	<i>Member Since</i>
1. Egyptian Syndicate of Professional Engineers	Member	1970
2. Society of Egyptian Engineers	Member	1976

**Honors and Awards**

1. Faculty of Engineering, KAU; Certificates of Appreciation.
2. Deanship of Students Affairs, KAU; Certificate of Appreciation.
3. KAU President, Certificate of Appreciation for The Valuable Contribution Concluded By The

## Achievement of ABET ACADEMIC ACCREDITATION

4. ECE Dept., KAU; Certificates of Appreciation.

**Institutional and Professional Services** (*administration, committees, units, etc.*)

1. Academic Advisor for Graduate and Undergraduate Students.
2. Summer Training Supervisor and Report Evaluator.
3. Member of Power and Machines Engineering Group Graduate and Undergraduate Program Development Committees.
4. Member of Department High Study Committee.
5. Member of Department Scientific Research Committee.
6. Power Electronics and Electrical Measurements Labs Supervisor.

**Principal Publications/Presentations from the Past Five Years**

1. M. Al-Hindawi, "Performance Characteristics of a System of An AC-DC Semi-converter Supplying Two DC Series Motors," Accepted for Publication At Journal of KAU, Eng. Sci., Manuscript Code:EE/804/0834.
2. Kuntal Mandal, A. Abusorrah, M. Al-Hindawi, Y. Al-Turki, Damian G. and Soumitro Banerjee, "Dynamical Behaviours of Interconnected Converters in Intermediate Bus Architecture," Accepted for Publication At the 2014 IEEE Int. Symposium on Circuits and Systems, Melbourne, Australia, June 1-5, 2014
3. Kuntal Mandal, A. Abusorrah, M. Al-Hindawi, Y. Al-Turki, Damian G. and Soumitro Banerjee, "Dynamical Analysis of Single Inductor Dual Output DC-DC Converters," IEEE International Symposium on Circuits and Systems (ISCAS2013), May 19-23, 2013, Beijing, China.
4. Abdullah Abusorrah, M. Al-Hindawi, Y. Al-Turki, Kuntal Mandal, Damian G., Soumitro Banerjee, "Stability of The Boost Converter Fed From Photovoltaic Source," Solar Energy, Pergamon-Elsevier Science LTD, vol. 98, Part C, pp 458-471
5. Kuntal Mandal, Chandan Chakraborty, Abdullah Abusorrah, Mohammed Al-Hindawi, Yousuf Al-Turki, and Soumitro Banerjee, "An Automated Algorithm for Stability Analysis of Hybrid Dynamical Systems," the European Physical Journal Special Topics 222 (3-4), 757-768, 2013
6. Damian G., S. Banerjee, Fatis S, Simira P., Spyros V. Bashar Z. Volker P. Abdullah Abusorrah, M. Al-Hindawi, and Yusuf Al-Turki, "Folding and Grazing of Tori In Current Controlled Interleaved Boost Converters," Int. Jour. of Circuit Theory and Applications, John Wiley&Sons, Ltd, Article ID: 1906, 2013
7. A El-Aroudi, D. Giaouris, K Mandal, S. Banerjee, a Abusorrah, M. Al-Hindawi and Y. Al-Turki, "Stability Analysis of a Bidirectional High-Step-Up DC Grid-Connected Two-Stage Boost DC-DC Converter," Accepted for Presentation At the International Conference on Structural Nonlinear Dynamics and Diagnosis, Agadir, May 19-21, 2014

**Recent Professional Development Activities** (*Workshops, training, etc.*)

1. Attended Numerous of Short Courses Organized By University Education Development Centre, KAU
2. Attended Seminars and Workshops Organized By ECE Deprtd., KAU
3. ABET Assessment Workshop, ECE, KAU