1. Personal data

Name (Arabic)	محمد أحمد إبراهيم محمد
Name (English)	Mohamed Ahmed Ebrahim Mohamed
Department	Electrical Engineering
College	Engineering
Academic degree	Ph. D
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Recent Photo (passport format)	

2. Education

Institution	Degree obtained	Year
Faculty of Engineering at Shoubra - Benha University – Cairo - Egypt	Ph. D of Electrical Engineering	2013
Faculty of Engineering at Shoubra - Benha University – Cairo - Egypt	Master of Electrical Engineering	2009
Faculty of Engineering at Shoubra - Zagazig University (Benha Branch) – Cairo - Egypt	Bachelor of Electrical Power and Machines Engineering	2004

General specialty	Electrical Power Engineering (Electrical Power Systems)
Specific specialty	New and Renewable Energy

Language skills

Language	Reading	Speaking	Writing
Arabic	**Excellent**	**Excellent**	**Excellent**
English	**Excellent**	**Excellent**	**Excellent**
French	**Good**	**Good**	**Good**
German	**Fair**	**Fair**	**Fair**

3. Membership of professional bodies (List)

1) A member of hybrid power systems, electric actuators, fuel cells systems French research team (SHARPAC) since 2016.
2) A member of International Conference on Renewable Energy: Generation and Applications (ICREGA'2016) organization committee since 2015.
3) A member of IEEE Transactions on Fuzzy Systems reviewers' board since 2013.
4) A member of American Journal of Engineering and Applied Science reviewers' board since 2014.
5) A member of World Society of Sustainable Energy Technologies (WSSET) since 2014.
6) A member of Engineering Consulting and Studies Center at Faculty of Engineering at Shoubra – Benha University since 2011.
7) A member of Electrical Engineering Technical Teamwork of Benha University since 2007.
8) A member of Electrical Engineering Technical Teamwork of Faculty of Engineering at Shoubra – Benha University 2006.
9) A member of Egyptian syndicate of engineers since 2004.

4. Distinction and Awards (List)

a. ASRT (Academy of Scientific Research and Technology, Egypt) grant for a workshop entitled "Small Scale Thermal Solar District Units for Mediterranean Communities" SEKEM, Al-Sharqia, Egypt: ***2016***

b. ASRT (Academy of Scientific Research and Technology, Egypt) graduation project fund to support the final year graduated students: ***2016***

c. STDF-IRD (Science and Technology Development Fund, Egypt) and (French Institute for Research and Development, France) Joint Short Term Fellowship: ***2016***

d. The first place "SFE Turbo Team" in hybrid-electric vehicle competition "First Global Hybrid-Electric Challenge in Egypt" sponsored by Global EEE: ***2016***

e. British Council (UK) grant for a workshop entitled "UK-Egypt enhanced research networks in renewable energy to support economic development" Arab Academy of Science & Technology, Alexandria Campus, Alexandria, Egypt: ***2015***

f. British Council (UK) grant for a workshop on "solar and wind energy technologies" Faculty of Engineering – Nottingham University – Nottingham – United Kingdom: ***2014***

g. The second place "Turbo Team" in GESR Wind Turbine competition "First Wind Turbine Challenge in Egypt" sponsored by GESR Association: ***2014***

h. The second place in line follower competition sponsored by Benha University: ***2014***

i. The seventh place in IRC Egypt competition "International Robotics Challenge in Egypt": ***2014***

j. The best robot design award in Robocon Egypt competition Organized by Helwan University: ***2014***

k. **Ph.D.** Degree Awarded from Faculty of Engineering at Shoubra - Benha University – Cairo – Egypt: ***March 2013*** "***with honor degree"***

l. French Council grant for a workshop on "renewable interconnection to the grid by virtual power plants" Faculty of Engineering – Zagazig University – Zagazig – Egypt: ***2012***

m. French Council grant for a workshop on "smart grid concept, operation, and control" Faculty of Engineering – PARIS-SUD 11 UNIVERSITE – Paris – France: ***2012***

n. **M.Sc.** Degree Awarded from Faculty of Engineering at Shoubra - Benha University – Cairo – Egypt: ***February 2009*** "***with honor degree"***.

o. **ISO 9001:2008** Certificate Awarded from Arab Company for Management Systems Development: ***September 2009***

p. **OHSAS 18001:2007** Certificate Awarded from Arab Company for Management Systems Development: ***October 2009***

q. **ISO 14001:2004** Certificate Awarded from Arab Company for Management Systems Development: ***October 2009***

r. **B.Sc.** Degree Awarded from Faculty of Engineering at Shoubra - Zagazig University (Benha Branch) – Cairo – Egypt: ***May 2004*** "***Second place with honor degree"***.

Areas of research

- Effort is devoted to develop a more comprehensive approach to the modeling of High Voltage Direct Current (HVDC) transmission systems in the presence of renewable energy resources.
- Research effort is devoted to develop a more comprehensive approach to the modeling of power systems with renewable energy resources.
- Effort is devoted also to develop more comprehensive analysis approaches for studying renewable energy based interconnected power systems.
- Analysis and control of renewable energy based power systems and the relevant artificial intelligent based optimization methods applicable to the enhancement of the effectiveness of their controllers.
- Effort is devoted also to develop new cutting edge technologies in fuel cell and energy storage systems and their applications in Electric Vehicles and fast charging stations.
- Smart grid concept, analysis, operation, and control.

- Application of the recent development in computer and internet facilities to improve teaching Methodologies benefiting from the e-learning tools and the various programs presented by the Higher education enhancement project fund (HEEPF).
- Transforming the actual courses from the conventional hard copy text form into the more elegant and perceptive soft form prescribed by the e-learning management form.

5. Academic

5.1. Teaching

5.1.1. Courses at under graduate level

Course title	Faculty / year
1) Automatic Control	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, since 2013
2) Transmission and Distribution of Electric Power	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, since 2007
3) Electrical Power Engineering	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, since 2006
4) Electrical Testing	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, since 2006
5) Electromagnetic fields testing	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, 2013 - 2014
6) Engineering Legislations	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, 2013 - 2014
7) Electrical Circuits	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, 2006 - 2009
8) Renewable Energy Systems	Al-Ameeria Integrated Technical Education Cluster, Cairo, Egypt, since 2014
9) Further Electrical Power	Al-Ameeria Integrated Technical Education Cluster, Cairo, Egypt, since 2014
10) Electric Installation Design	Al-Ameeria Integrated Technical Education Cluster, Cairo, Egypt, since 2014
11) Engineering Design	Al-Ameeria Integrated Technical Education Cluster, Cairo, Egypt, since 2013

12) Electrical Power Engineering	Elgazeera High Institute for Engineering and Technology, Cairo, Egypt, 2014-2015
13) Control Systems	Elgazeera High Institute for Engineering and Technology, Cairo, Egypt, 2014-2015
14) Electric Circuits I	Misr International University (MIU), Cairo, Egypt, 2015

5.1.2. Courses at post graduate level

Course title	Faculty / year
1) Generation of Electrical Power from renewable resources	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, since 2015
2) Power System Control	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, since 2013
3) Advanced Studies in Transmission and Distribution of Electric Power	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, since 2013
4) Advanced Studies in Electrical Power Systems Analysis I	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, since 2013
5) Control of Electrical Power Systems	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, since 2013
6) Advanced Studies in Electrical Power Systems Analysis II	Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt, 2013 - 2015

5.2. Ph. D/M.Sc. Supervision

Title	Ph.D./ M.Sc.	Year completed / in progress
1) Performance Enhancement of Wide Area Protection Using Fault Identification Scheme	Ph.D.	In progress
2) Design New Controllers for Improving Power Quality of Wind Energy Conversion Systems	Ph.D.	In progress
3) Transient Stability Enhancement of Hybrid Renewable Energy Power Systems Using AI Techniques	Ph.D.	In progress
4) Artificial Intelligence based Energy Management for Renewable Energy Interconnected Systems	Ph.D.	In progress

4) Advanced load frequency control schemes for interconnected power systems	Ph.D.	In progress
5) Improving the power quality using renewable resources based DG unit allocation in distribution system	Ph.D.	In progress
6) Optimization techniques for North Cairo Power Station Electricity generation	Ph.D.	In progress
7) Rationalization and management of electrical energy in the distribution networks using integrated smart grid system	M.Sc.	In progress
8) Advanced Control Techniques of Insulated Core Transformer Accelerator for Optimum Irradiation Dose Determination	M.Sc.	In progress
9) Mitigation of Torsional Oscillations in large Turbine Generator Shaft System Resulting from Reclosing Practices Using AI techniques	M.Sc.	2016
10) Advanced controllers and energy management for wind/hydro hybrid system	M.Sc.	2016
11) Smart Grid Integration of PV/WT Hybrid System (Grid Optimization and Distribution Generation)	M.Sc.	2016
12) Control of Multi Area Power System Based on Different Particle Swarm Optimization Techniques	M.Sc.	2016
13) PQ for the Grid Supported with Wind Turbines	M.Sc.	2016
14) Analysis and Control of Over voltages on Vacuum Circuit Breaker Switched Large Induction Motors Using Wavelet Technique	M.Sc.	2015
15) Modeling and Control of an Inverted Pendulum Based on Evolutionary Computational Techniques	M.Sc.	2015

5.3. Graduation Projects Supervision

Title	Year completed / in progress
1) Smart Touristic Village	In progress
2) Eco-Smart Village	2016
3) Photovoltaic Array System Design and Installation for Academic Building	2015

4) Electrical Distribution for Academic Building Using PV Array Systems	2015
5) Analysis, Design, and Control of Wind Farm Connected to The National Grid	2014
6) Management of Integrated Distribution Networks Based on Distributed Generation Systems	2014
7) Electrical Distribution of a Residential City Using PV Systems	2014
8) Smart Building for Sustainability Using PV System	2014
9) Electricity Production Using Biogas from Wastewater Treatment Plant	2014
10) Electrical Distribution and Control of Academic Buildings	2014
11) Solar Tower Power Plant	2013
12) Analysis, Design, and Control of Photovoltaic Systems	2013
13) Application of Photo Voltaic Cells in Green Houses	2013
14) Electrical Distribution of an Industrial Factory (Toshiba Factory)	2103
15) Low Voltage Electric Distribution System	2012
16) Optimal Planning of Low Voltage Distribution System for an Industrial Installation	2011
17) A New Approach for Long Transmission Line and Distribution System Design	2010
18) A New Approach for A Long Transmission Line Design Under Economic Considerations	2009

5.4. Grants for Projects

Funding organization	Project title	Role	Year
Three months Egyptian-French scientific research program (STDF-IRD 2014, Project Number: 16330) between both Science and Technology Development Fund in Egypt and French Institute for Research and Development in France	Optimal Energy Management Solutions for Renewable Energy Based Multi-Source Systems	Member and the Representative of the Egyptian side	2016
Two years Egyptian-French scientific research program (PHC IMHOTEP 2011, Project Number: 25687YJ) between both European Embedded Control Institute (EECI) in France and Faculty of Engineering-Zagazig University in Egypt	Renewable Interconnections to The Grid by Virtual Power Plants	Member and the Representative of the Egyptian side	2010 - 2012

The Egyptian Ministry of Higher Education	Establishment of Internal Quality Assurance and accreditation system at the Faculty of Engineering, Benha University	Member	2009
One-year higher education enhancement project fund (HEEPF 2007, Project Code: B-70-T1 EHVPSD) between both the Egyptian Ministry of Higher Education and Faculty of Engineering at Shoubra – Benha University in Egypt	Enhancing High Voltage Engineering and Power Systems Education Using Software Packages in a LAN (EHVPSD) laboratory Project	Supervisor and Technical Engineer	2007
The Egyptian Ministry of Higher Education	the erection and installation of Benha university network project	Vice Director and Technical Engineer	2006

5.5. Committees

1) A member of the international communication unit of the faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.
2) A member and vice director of Advanced Training Unit at faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.
3) A member of scientific equipment committee at faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.
4) A member and manager of Electronic Learning Unit at faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.
5) A member and coordinator of Information Technology (IT) committee of the faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.
6) A member of Quality Assurance Unit (QAU) at faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.
7) A member of CIQAP project at faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.
8) A member of audio, video, and computers maintenance unit at faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.

5.6. List of Publications (Authors, Title, Journal/Conference name, pages from to, year, link to full paper)

1. **M. A. Ebrahim, T. Elyan, F. Wadie and M. Abd-Allah.** Optimal design of RC snubber circuit for mitigating transient overvoltage on VCB via hybrid FFT/Wavelet Genetic approach. Electric Power Systems Research, vol. 143, pp. 451-461, 2017.

URL:

http://www.sciencedirect.com/science/article/pii/S037877961630476X

2. **M. A. Ebrahim and H. S. Ramadan.** Interarea Power System Oscillations Damping via AI-based Referential Integrity Variable-Structure Control. International Journal of Emerging Electric Power Systems, 2016.

URL:

https://www.degruyter.com/view/j/ijeeps.ahead-of-print/ijeeps-2016-0147/ijeeps-2016-0147.xml

3. **M. A. Ebrahim, H. A. Abdel Hadi, H. M. Mahmoud, E. M. Saied and M. M. Salama.** Optimal Design of MPPT Controllers for Grid Connected Photovoltaic Array System. International Journal of Emerging Electric Power Systems, 2016.

URL:

https://www.degruyter.com/view/j/ijeeps.ahead-of-print/ijeeps-2016-0077/ijeeps-2016-0077.xml

4. **M. A. Ebrahim, T. Elyan, F. Wadie and M. A. Abd-Allah.** High frequency spectrum analysis of transient overvoltage across VCB switched large induction motors. International Journal of Applied Science and Engineering Research, Vol. 4, no. 5, pp. 847-855, 2015.

URL:

http://www.indianjournals.com/ijor.aspx?target=ijor:ijaser&volume=4&issue=5&article=024

5. **M. A. Ebrahim, K. M. Gamal, E. A. Mohamed and K. Abd El-Aty.** Power Quality Improvement for Grid Connected Synchronous Generator Based Wind Farm. International Journal of Engineering Research, Vol. 3, no. 6, pp. 307-319, 2015.

URL:

http://ijoer.in/3.6.15.html

6. **M. A. Ebrahim, M. Omar, F. M. Bendary and A. M. Abdel Ghany.** Tuning of PID Controller for Load Frequency Control Problem via Harmony Search Algorithm. Indonesian Journal of Electrical Engineering and Computer Science, Vol. 1, no. 2, pp. 255-263, 2016.

URL:
http://www.iaescore.com/journals/index.php/IJEECS/article/view/244

7. **M. A. Ebrahim, Ali M. Ali and M. A. Moustafa Hassan.** Automatic Voltage Generation Control for Two Area Power System Including GRC nonlinearity based on Particle Swarm Optimization. Indonesian Journal of Electrical Engineering and Computer Science, Vol. 2, no. 1, pp. 33-40, 2016.

URL:
http://www.iaescore.com/journals/index.php/IJEECS/article/view/329

8. **M. A. Ebrahim, K Jagatheesan, B Anand and Nilanjan Dey.** Design of Proportional-Integral-Derivative Controller Using Stochastic Particle Swarm Optimization Technique for Single-Area AGC Including SMES and RFB Units. Proceedings of the Second International Conference on Computer and Communication Technologies, Springer India, pp. 299-309, 2016.

URL:
http://link.springer.com/chapter/10.1007/978-81-322-2523-2_28

9. **M. A. Ebrahim, Ali M. Ali and M. A. Moustafa Hassan.** Control of Single Area Power System Based on Evolutionary Computation Techniques. 17th International Middle East Power Systems Conference, Mansoura University, Egypt, December 15-17, 2015

URL:
https://www.researchgate.net/publication/287491139_Control_of_Single_Area_Power_System_Based_on_Evolutionary_Computation_Techniques_Presented_at_MEPCON%272015_Mansoura_University_Mansoura_Dec_2015_Egypt

10. **M. A. Ebrahim, M. Abd-Elkareem and E. Abd-Elalim.** Optimal Controllers for DFIG based Wind Farm connected to Grid using Evolutionary Techniques. International Journal of New Technologies in Science and Engineering, pp. 87-96, 2015

URL:
http://www.ijntse.com/upload/1449122638SP-178.pdf

11. **M. A. Ebrahim, M. Omar, F. M. Bendary and A. M. Abdel Ghany.** Harmony Search based PID for Multi Area Load Frequency Control Including Boiler Dynamics and Nonlinearities. WSEAS TRANSACTIONS ON CIRCUITS AND SYSTEMS, WSEAS, pp. 407-414, 2015

URL:
http://www.wseas.org/multimedia/journals/circuits/2015/a905801-489.pdf

12. **M. A. Ebrahim, M. E. Mousa and M. A. Moustafa Hassan.** Stabilizing and Swinging-Up the Inverted Pendulum Using PI and PID Controllers Based on Reduced Linear Quadratic Regulator Tuned by PSO. International Journal of System Dynamics Applications (IJSDA), IGI Global, pp. 52-69, 2015.

URL:

http://www.igi-global.com/article/stabilizing-and-swinging-up-the-inverted-pendulum-using-pi-and-pid-controllers-based-on-reduced-linear-quadratic-regulator-tuned-by-pso/136998

13. **M. A. Ebrahim, M. Ahmed, H. S. Ramadan and M. Becherif.** Optimal Genetic-sliding Mode Control of VSC-HVDC Transmission Systems. Energy Procedia, Elsevier, pp. 1048-1060, 2015.

URL:
http://www.sciencedirect.com/science/article/pii/S1876610215015118

14. **M.A. Ebrahim, K. Jagatheesan and B. Anand.** Stochastic Particle Swarm Optimization for Tuning of PID Controller in Load Frequency Control of Single Area Reheat Thermal Power System. International Journal of Electrical and Power Engineering, Vol. 8, no. 2, pp. 33-40, 2014.

URL:
http://medwelljournals.com/abstract/?doi=ijepe.2014.33.40

15. **M. A. Ebrahim, Khaled A. El-Metwally, Wagdy M. Mansour and Fahmy M. Bendary.** AI-Based Stabilization for New and Renewable Energy Distributed Generation Systems. Ph.D. Thesis, **2013** (Benha University).

URL:
http://bu.edu.eg/staff/mohamedmohamed033

16. **M. A. Ebrahim, Khaled A. El-Metwally, Wagdy M. Mansour and Fahmy M. Bendary.** Fuzzy stabilizer design for renewable energy based distribution networks. 22nd International Conference on Electricity Distribution, pp. 1-4, 2013.

URL:
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6683188

17. **M. A. Ebrahim, Khaled A. El-Metwally, Wagdy M. Mansour and Fahmy M. Bendary.** Transient Stability Enhancement of a Wind Energy Distributed Generation System by Using Fuzzy Logic Stabilizers. International Journal of Wind Engineering, pp. 687-700, 2012.

URL:
http://multi-science.metapress.com/content/586t3222u1863078/

18. **M. A. Ebrahim, Khaled A. El-Metwally, Wagdy M. Mansour and Fahmy M. Bendary.** Stabilization of Renewable Energy Distributed Generation System via Fuzzy Logic Stabilizers. Fourth International Joint Journal Conference in Computer, Electronics and Electrical, 2012.

URL:
http://cee.theaceee.org/2012/CEE2012Accept.pdf

19. **M. A. Ebrahim, Khaled A. El-Metwally, Wagdy M. Mansour and Fahmy M. Bendary.** Fuzzy Logic Stabilizers in a Wind Energy Distributed Generation System. International Journal of Electrical and Power Engineering, Vol. 6, no. 5, pp. 132-139, 2012

URL:
http://medwelljournals.com/abstract/?doi=ijepe.2012.132.139

20. **M. A. Ebrahim, Khaled A. El-Metwally, Wagdy M. Mansour and Fahmy M. Bendary.** Optimization of Proportional-Integral-Differential Controller for Wind Power Plant Using Particle Swarm Optimization Technique. International Journal of Electrical and Power Engineering, Vol. 6, no. 1, pp. 32-37, 2012

URL:
http://medwelljournals.com/abstract/?doi=ijepe.2012.32.37

21. **M. A. Ebrahim, Khaled A. El-Metwally, Wagdy M. Mansour, Fahmy M. Bendary. H. S. Ramadan, R. Ortega, and J. Romero.** Application of Particle Swarm Optimization based Proportional-Integral-Differential Controller for Wind Power Plant, International Journal of Emerging Technologies in Sciences and Engineering, Vol. 2, no. 2, 2010

URL:
http://scholar.google.com/citations?view_op=view_citation&hl=en&user=pppk398AAAAJ&citation_for_view=pppk398AAAAJ:UeHWp8X0CEIC

22. **M. A. Ebrahim, Hossam E. Mostafa, Saied. A. Gawish and Fahmy M. Bendary.** Design of decentralized load frequency Based-PID Controller using Stochastic Particle Swarm optimization technique. International Conference on Electric Power and Energy Conversion Systems EPECS'09, pp. 1-6, 2009.

URL:
http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5415709&abstractAccess=no&userType=inst

23. **M. A. Ebrahim, Hossam E. Mostafa and Fahmy M. Bendary.** AI-Based Decentralized Load Frequency Controllers for Interconnected Power Systems. M.Sc. dissertation, **2009** (Benha University).

URL:
http://bu.edu.eg/staff/mohamedmohamed033

5.7. Books published

1) Transmission and Distribution of Electric Power
2) Electric Testing
3) Electrical Power Engineering

6. Attended Workshops, Symposiums, and Conferences

Name of Workshops, Symposiums, and Conferences	Year
A- Workshops	
1. Workshop on "Small Scale Thermal Solar District Units for Mediterranean Communities" SEKEM, Al-Sharqia, Egypt.	**October 2016**
2. Workshop on "UK-Egypt enhanced research networks in renewable energy to support economic development," ***2015*** at Arab Academy of Science & Technology, Alexandria Campus, Alexandria, Egypt.	**February 2015**
3. Workshop on "Green Innovation and Entrepreneurship Program" Faculty of Engineering, Zagazig University, Zagazig, Egypt	**April 2014**
4. Workshop on "Solar and Wind Energy Systems" Faculty of Engineering, Nottingham University, Nottingham, United Kingdom	**March 2014**
5. Workshop on "Bio-gas Production from Wastes" Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2013**
6. Workshop on "Wastes Recycling" Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2013**
7. Workshop on "Waste water Treatment Plant" Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2012**
8. Workshop on "Renewable Interconnection to the Grid by Virtual Power Plants" Faculty of Engineering, Zagazig University, Zagazig, Egypt	**2012**
9. Workshop on "Smart Grid Concept, Operation, and Control" Faculty of Engineering, PARIS-SUD 11UNIVERSITE, Paris, France	**2011**
10. Workshop on "Smart Grid Definition and Technology" Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2011**
11. Workshop on "Concepts of Quality assurance and accreditation" Benha University, Egypt	**2009**
12. Workshop on "Standards of accreditation of higher education institution", Benha University, Egypt	**2009**
13. Workshop on "Procedures of Accreditation by the National Authority of Quality Assurance and Accreditation", Benha University, Egypt	**2009**
14. Training in Effective Presentation Course, Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2009**
15. Workshop on "Digital Libraries" held at Benha University, Egypt	**2008**
16. Training in Basic Curriculum Design Course, Faculty of Engineering at Shoubra, Benha University, Egypt	**2007**
17. Training in Occupational Ethics Course, Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2007**
18. Training in Using Technology in Teaching, Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2006**
19. Training in Preparation and Writing of Scientific Researches, Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2006**
20. Training Course for the Production of Educational Materials, Faculty of Education, Benha University, Benha, Egypt	**2006**

21. Training Course organized by the Benha University and training project of faculty members in the field of modern technology for production of educational materials including the three programs (The use of Educational supply and maintenance, Production of Teaching materials, The design of Educational Attitudes) Benha, Egypt	**2006**
22. Workshop on "How to Fill the Course Specification Template According to Quality Assurance and Accreditation Guidelines"	**2006**
B-Symposiums	
23. Symposium on "Environmental Engineering " held at the Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2008**
24. Symposium on "Importance of Industrial Engineering" held at the Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	**2007**
C-Conferences	
25. The 4th International Conference on Renewable Energy: Generation and Applications, Belfort, France, February 8 – 10, 2016	**2016**
26. The 1st International Conference on Recent trends in energy systems, Cairo, Egypt, October 3-4, 2015	**2015**
27. The 15th International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, Beirut, Lebanon, April 17–20, 2015	**2015**

7. Positions

7.1. Academic Positions

	Date From - to	Organization	Country	Position	Role
1	May 2013-present	Faculty of Engineering at Shoubra - Benha University	Egypt	Lecturer	Teaching and research
2	December 2009-2013	Faculty of Engineering at Shoubra - Benha University	Egypt	Assistant Lecturer	Teaching and research
3	April 2005-2009	Faculty of Engineering- Zagazig University (Benha Branch)	Egypt	Demonstrator	Teaching and research

7.2. Administrative Positions

	Date From - to	Organization	Country	Position	Role
1	2013-present	Advanced Training Unit - Faculty of Engineering at Shoubra - Benha University	Egypt	Director	Managing
2	2013-present	Audio, Video, and Computers Maintenance Unit - Faculty of Engineering at Shoubra - Benha University	Egypt	Director	Managing
3	2014-present	ICDL Training and Testing Center - Faculty of Engineering at Shoubra - Benha University under ICDL Arabia Supervision	Egypt	Center Manager	Managing
4	2012-2014	ICDL Training and Testing Center - Faculty of Engineering at Shoubra - Benha University under ICDL Egypt Supervision	Egypt	Center Manager	Managing
5	2010-2012	ICDL Training and Testing Center - Faculty of Engineering at Shoubra - Benha University under UNISCO Supervision	Egypt	Center Manager	Managing
6	2009-present	Electronic Learning Unit - Faculty of Engineering at Shoubra - Benha University	Egypt	Director	Managing
7	2009-present	Electronic Tansik Center for secondary school students - Faculty of Engineering at Shoubra - Benha University	Egypt	Director	Managing
8	2006-2009	Electronic Learning Unit - Faculty of Engineering at Shoubra - Benha University	Egypt	Vice Director	Managing

8. Activities in faculty/university/community service

Name of Activity service	Year
1. Participating in organizing the 4th international Conference on Renewable Energy: Generation and Applications (ICREGA'2016), Belfort, France.	2016
2. Participating in organizing the 5th international Conference on Modeling, Identification and Control (ICMIC), Faculty of Engineering, Cairo University, Cairo, Egypt.	2013
3. An organizer of workshop entitles "Bio-gas Production from Wastes "at the Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	2013
4. An organizer of workshop entitles "Wastes Recycling "at the Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	2013
5. An organizer of workshop entitles "Waste water Treatment Plant "at the Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	2012
6. An organizer of workshop entitles "Renewable Interconnection to the Grid by Virtual Power Plants" Faculty of Engineering, Zagazig University, Zagazig, Egypt	2012
7. Academic assistant for postgraduate studies students	2010-present
8. A coordinator for external communication with international schools	2010-present
9. ICDL certified trainer and tester	2010-present
10. ICDL testing center manager at the faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	2010- present
11. A member of Consulting center of Shoubra faculty of Engineering	2009-Present
12. A member of Rehabilitation team work. College of Engineering at Shoubra-Cairo, Egypt	2009
13. A member of Faculty council for quality assurance and accreditation	2008-present
14. A member of equipment committee of the faculty	2007-present
15. Electronic Tansik supervisor for secondary school students	2007-present
16. Participation at the awareness campaign for electronic Tansik for secondary school students	2006
17. A member of the technology club unit at the faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	2006- present
18. IT coordinator	2006
19. Participating in organizing the environmental Conference, Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.	2006-present
20. Participation of the scientific meeting entitle "IEEE Student Branch" Faculty of Engineering at Shoubra, Benha University, Cairo, Egypt	2006-2009
21. Academic and technical Assistance on graduation projects for under graduate students at faculty of Engineering at Shoubra, Benha University, Cairo, Egypt.	2006-present
22. A member of the Environmental and Civil Consulting Center, Cairo, Egypt.	2006-present

9. Consulting Experience

- Supervising the construction work, operation and maintenance of all electrical works of National Cement Company Environmental Enhancement Project.
- Designing, supervising the construction work, operation and maintenance of all electrical works of the following projects:
    a. **NEW CAIRO CITY WATER SUPPLY** (2,000,000 m^3/Day).
    b. **6th of OCTOBER CITY WATER SUPPLY** (1,700,000 m^3/Day).
    c. **Extension of ABU RAWASH WWTP** (800,000 m^3/Day).
    d. **Rehabilitation of BERKA WWTP** (800,000m3/Day).
    e. **HELWAN WWTP** (550,000 m^3/Day).
    f. **AL MARG PWTP** (600,000 m^3/Day).
    g. **NEW CAIRO WWTP** (250,000 m^3/Day).
    h. **North of JEDDAH WWTP - KSA (250,000 m3/Day).**
    i. **TAIF – BAHA Water Pipe Line – KSA.**
    j. **RAS ZAUR – HAFR BATEN Water Pipe Line – KSA.**
    k. **New Cairo Water Supply (Intake) and Boosters *(The Greatest Water Supply Project in Egypt)*.**
    l. **The availability and operation of A Wastewater Treatment Plant in New Cairo through Public Private Partnership *(the first project in Egypt)*.**
    m. **6th of OCTOBER CITY Water Supply (Intake) and Boosters.**
- Informational Technology consultant (Electronic Learning, websites, Data bases).
- Foreign communications and agreements.
- Quality assurance and accreditation as a reviewer.
- Faculty leadership, Development and trainer.
- International computer driving license (ICDL) certification.
- Online and distance education consultant approved by Ministry of Higher Education-Higher education enhancement project fund (HEEPF).
- Experimental Design consultant (designing experimental research)
- Writing scientific papers and competitive scientific projects.
- International publication consultant as international peer reviewer for scientific journals.

PROFESSIONAL TECHNIQUES AND AREA OF EXPERTISE

- Artificial Intelligence based techniques and their applications in new and renewable energy based Power Systems.
- Optimization techniques and their applications.

COMPUTER, IT AND STATISTICAL SKILLS

- International computer driving license (ICDL) certification (word. Access, excel, PowerPoint, internet, information technology, using the computer and managing files)
- Skillful Statistical analysis using Excel.
- Engineering drawing using AutoCAD.
- Programmable Logic Controller (PLC) and its applications.
- Design of Medium voltage and Low voltage distribution networks using software packages.
- Power system operations, analysis and control using advanced software packages (ETAP, ATP, PSAT, PSCAD, PSS/E, Power World Simulator).
- Systems modeling and simulation using MATLAB software package.

ACTIVITIES IN THE QUALITY ASSURANCE AND ACCREDITATION

- A member of the implementation team of Quality assurance and accreditation project at faculty of engineering at Shoubra, Benha University, Cairo, Egypt.
- Workshop on "Concepts of Quality assurance and accreditation", conducted by the National Authority for Quality Assurance and Accreditation Faculty of Engineering at Shoubra, Benha University, 2009, Cairo, Egypt.
- Workshop on "Standards of accreditation of higher education institution", Faculty of Engineering at Shoubra, Benha University, 2009, Cairo, Egypt.
- Workshop on "Procedures of accreditation by the National Authority of quality assurance and accreditation", Faculty of Engineering at Shoubra, Benha University, 2009, Cairo, Egypt.
- Participation in the Health, Safety and Environment Management System Internal Auditing Programs according to ISO 14001:2004 specifications due the period 1/2009 till 1/2010.
- Participation in the Health and Safety Management System according to OHSAS 18001:2007 specification Due the period 1/2009 Till 1/2010 for the Environmental and Civil Consulting Center.
- Participation in the Quality Management System Internal Auditing Programs according to ISO 9001:2008 specifications Due the period 8/2007 Till 10/2010 for the Environmental and Civil Consulting Center.