


1. Personal data

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Institution	Electrical Engineering Depart. – Faculty of Engineering at Shoubra – Benha University		
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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

3. Specialty

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

4. Academic Positions

	Date From - to	Organization	Country	Position	Role
1	November 2018-present	Faculty of Engineering at Shoubra	Egypt	Associate Professor	Teaching and research
2	May 2013-2018	Faculty of Engineering at Shoubra	Egypt	Lecturer	Teaching and research
3	December 2009-2013	Faculty of Engineering at Shoubra	Egypt	Assistant Lecturer	Teaching and research
4	April 2005-2009	Faculty of Engineering at Shoubra	Egypt	Demonstrator	Teaching and research

5. Language skills

Language	Reading	Speaking	Writing	Certificate
Arabic	Excellent	Excellent	Excellent	Native Language
English	Excellent	Excellent	Excellent	TOEFL IBT
French	Good	Good	Good	4 Level from IFE

6. Membership of professional bodies

- IEEE Senior member since 2020.
- A certified consultant of new and renewable energy systems from Egyptian syndicate of engineers since 2019
- A member of hybrid power systems, electric actuators, fuel cells systems French research team (SHARPAC) since 2016.
- A member of International Conference on Renewable Energy (ICREGA'2016) organization committee since 2015.
- A member of IEC and Egyptian code national reviewing committees since 2013
- A member of IEEE Transactions on Fuzzy Systems, American Journal of Engineering and Applied Science, International Journal of Electrical Power and Energy Systems, Electrical Engineering Springer, IEEE Transactions on Vehicular Technology, IET Renewable Power Generation, International Journal of Hydrogen Energy reviewers' boards since 2013.
- A member of World Society of Sustainable Energy Technologies (WSSET) since 2014.
- A member of Engineering Consulting and Studies Center at Faculty of Engineering at Shoubra – Benha University since 2011.
- A member of Egyptian syndicate of engineers since 2004.

7. Distinction, Awards, and Fellowships

- Postdoctoral fellowship presented by STDF-IFE: 2018
- Distinction prize for international publishing and citation competition from SRF - Benha University: 2018
- ASRT graduation project fund to support the final year graduated students (Six projects): 2016, 2018 and 2019
- ASRT grant for a workshop, SEKEM, Al-Sharqia, Egypt: 2016
- Honorary session chair of ICEREGA17, Belfort, France: February 2016
- STDF-IRD Joint Short-Term Fellowship: 2016
- The first place "SFE Turbo Team" in hybrid-electric vehicle competition sponsored by Global EEE: 2016
- British Council (UK) grant for a workshop, Arab Academy of Science & Technology, Alexandria, Egypt: 2015

- British Council (UK) grant for a workshop, Nottingham University – Nottingham – United Kingdom: 2014
- The second place “Turbo Team” in GESR Wind Turbine competition sponsored by GESR Association: 2014
- The best robot design award in Robocon Egypt competition Organized by Helwan University: 2014
- French Council grant for a workshop, Faculty of Engineering – PARIS-SUD 11 UNIVERSITE – Paris – France: 2012
- ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004, ISO 9001:2015, ISO 37000:2021 and ISO 56002:2019 Certificates for Management Systems Development.

8. Areas of research

- Research focus is to accelerate the applications of off grid as well as grid connected PV systems and to develop new cutting-edge technologies in fuel cell and energy storage systems and their applications in Electric Vehicles and fast charging stations.
- Research effort is devoted to develop a more comprehensive approach to the modeling of power systems with renewable energy resources and High Voltage Direct Current (HVDC) transmission systems in the presence of renewable energy resources.
- Effort is devoted also to develop more comprehensive analysis approaches for studying renewable energy based interconnected power systems and smart grid concept, analysis, operation, and control.
- 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.

9. Academic

9.1. Teaching

9.1.1. Courses at undergraduate level (Seven academic institutions)

New and Renewable Energy	Solar Cells Fundamentals; Renewable Energy Systems; Electricity Generation from renewable resources; Wind Energy; Solar Energy; Hydro Tidal and wave Energy.
Control	Automatic Control; Control Systems; Principles of Electrical Engineering; Computer-aided Analysis; Electric Drive Systems; Signals and Systems; Industrial Control and SCADA Systems.
Electric Power Systems	Electric Power; Transmission and Distribution of Electric Power; Electrical Testing; Electrical Circuits; Electromagnetic fields testing; Further Electrical Power; Electric Installation Design.
Design	Engineering Design; Projects Management; Engineering Legislations

9.1.2. Courses at post graduate level

New and Renewable Energy	
Control	Advanced Automatic Control; Power System Control
Electric Power Systems	Advanced Studies in Transmission and Distribution of Electric Power; Advanced Studies in Electrical Power Systems Analysis I&II
Design	Engineering Design; Projects Management; Engineering Legislations

10. Ph. D, M.Sc. and Graduation Projects Supervision

Ph. D theses: 17	M. Sc. Theses: 28	Graduation Projects: 37
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11. Grants for Projects

Co-Principal Investigator of the “Energy Efficiency – Accompanying Measures in Egyptian Universities” in Benha University under KfW supervision, 2022
CEO of digital transformation project in field of measurement and assessment for higher education institutes, 2020
Principal Investigator of Egyptian-French scientific research project STDF-IFE, 2018
Principal Investigator of Egyptian graduation project fund to support the final year graduated students ASRT, 2018, 2016
Member of Egyptian-French scientific research program (PHC IMHOTEP 2017, Project Number: 37950RD), 2017-2019
Co-Principal Investigator of Egyptian two years SRF project fund, 2016-2018
Principal Investigator of Egyptian-French scientific research project STDF-IRD, 2014
Member of Egyptian-French scientific research program (PHC IMHOTEP 2011, Project Number: 25687YJ), 2010-2012
Supervisor of one-year higher education enhancement project fund (HEEPF 2007, Project Code: B-70-T1 EHVPSD), 2007

12. Scientific List of Publications

International Journals: 82	Peer reviewed international conferences: 18
Books: 6	h-index: 18 (Google Scholar) Citations: 1034

13. Attended Workshops, Symposiums, and Conferences

Workshops: 32	Symposiums: 12	Conferences: 16
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14. Activities in faculty/university/community service (more than fifty-five activities)

15. Consulting Experience (design, supervision, operation and maintenance for more than seventy-five projects)

16. Activities in the quality assurance and accreditation (more than fifteen activities)