

Curriculum Vitae

Personal Details:

Scientific Degree: Professor of Electrical Engineering – Power and Energy Systems' Control, Dynamics and Stability

Full Name: Waheed Said Ali Sabry

Current Position: Vice Dean for Education and Student Affairs and also, the Head of Electrical Engineering Department, Giza Engineering Institute (GEI), Giza, Egypt

Birth Date: August 20, 1965, Alexandria, Egypt

Nationality: Egyptian

Religion: Muslim

Ethnicity: White (Mediterranean North African)

Marital Status: Married with two daughters

Gender: Male

Address: Egypt, Cairo, New Cairo (El-Kahira El-Gadida), 5th Settlement (El-Tagamoa El-Khamis), Hay # (1), Manteka # (1), Street # (2), Villa # (140)

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Syndicate: Syndicate of Engineers – Member No. 8847 / 21

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Education:

- 1- B.Sc. in Electrical Engineering, July 1987, Military Technical College (MTC), Cairo, Egypt, Excellent grade.
- 2- M.Sc. in Electrical Engineering, January 1993, MTC, thesis entitled with:
"Influence of Excitation Control on Power System Stability"
- 3- Diploma in Statistics, June 1995, Cairo University, Faculty of Graduate Studies for Statistical Research (FGSR), Cairo, Egypt.
- 4- Ph.D. in Electrical Engineering, February 1998, MTC, thesis entitled with:
"Control Schemes in Large Scale Power Systems"
- 5- M.Sc. in Mathematical Statistics, June 2002, FGSR, thesis entitled with:
"On the Reliability of Large Consecutive k-out-of-n:F Systems"
- 6- Associate Professor in Electrical Engineering, January 2005.
- 7- Professor in Electrical Engineering, January 2015.

History of Employment:

- 1- A commander in roads battalion in the brigade No. 19 for roads in the Egyptian Armed Forces, from October 1987 to November 1988.
- 2- Teaching Assistant in Electrical Power and Energy Department (EPED), MTC (<http://www.mtc.edu.eg>), from November 1988 to January 1998.
- 3- Lecturer in EPED (MTC), from January 1998 to January 2005.
- 4- Post-doctoral researcher in the Bradley Department of Electrical and Computer Engineering at Virginia Tech (www.ece.vt.edu), USA, from July 2001 to January 2002.
- 5- Associate Professor in EPED (MTC), from January 2005 till January 2015.

- 6- Professor in EPED (MTC), from February 2015 till August 2016.
- 7- Head (Chair) of EPED (MTC), from June 2001 till January 2011.
- 8- Head (Chair) of EPED Scientific Council (MTC), from Feb. 2005 till Aug. 2016.
- 9- Dean of the High Institute for Engineering and Technology, Luxor, Egypt, (<http://www.luxorhiet.edu.eg>), 2015 - 2016.
- 10- Head (Chair) of Electrical Engineering Department, Valley Higher Institute for Engineering and Technology, SVA, Cairo, Egypt, (<http://www.sva.edu.eg>), from September 2016 till January 2020.
- 11- Professor of Electrical Engineering, Electrical Engineering Department, Higher Technological Institute, 10th of Ramadan City, Sharqia, Egypt (<http://www.gei.edu.eg/>), from February 2020 till August 2020.
- 12- Dean of Higher Institute of Engineering, Automotive Technology and Renewable Energy (NHE), Cairo, Egypt, (<https://nhe.edu.eg/>), from September 2020 till August 2021.
- 13- Dean of the High Institute of Engineering and Technology in King Marriott, Alexandria, Egypt, (<http://www.hti.edu.eg/>), from September 2021 till September 2023.
- 14- Vice Dean for Education and Student Affairs and also, the head of Electrical Engineering Department of the Giza Engineering Institute (GEI), Giza, Egypt (<http://www.gei.edu.eg/>), from September 2023 till now.

Academic/Professional Experiences:

- 1- Teaching and Researching in MTC, different colleges and universities in Egypt, and international universities from 1988 till now.
- 2- Publishing research papers in the fields of Electrical Power Engineering, Mathematics and Statistics in national and in international journals, and conferences from 1993 till now.
- 3- Reviewing papers and technical reports from 1998 till now, in the fields of Electrical Power Engineering, Mathematics and Statistics in national and in international journals and conferences.
- 4- Editorial board member in different international journals and conferences.
- 5- Supervision and examining different M.Sc. and Ph.D. theses and dissertations in MTC, different colleges and universities in Egypt, and international universities from 1998 till now.
- 6- Training period on educational laboratories, Germany, 1997.
- 7- Training period on CAD techniques, Czech Republic, 1999.
- 8- Training period on statistics for total quality management (statistical techniques for decision making and quality improvement), American University Cairo, AUC, Cairo, Egypt, 2006.
- 9- Teaching and tutoring Mathematics and Statistics for international graduate certificate for secondary education (IGCSE), American Diploma and international baccalaureate (IB) students (all levels) in different Egyptian (international) schools from 1991 till now.
- 10- Mathematics examiner for IB students from 2005 till now.
- 11- Design, planning, contracting and operation of: electrical machines, power systems, power electronics and high voltage laboratories, MTC, Cairo, Egypt.
- 12- Design, planning and contracting of different electrical distribution systems in MTC and Egyptian Armed Forces, Cairo, Egypt.
- 13- Working in co-operation with different MTC committees in MTC teaching affairs and MTC graduate affairs to modernization and development of Electrical Power and Energy Department courses and teaching plans, MTC, Cairo, Egypt, from 2001 till now.
- 14- Working in co-operation with different MTC committees in MTC research affairs to design, implement and evaluate research projects related to Electrical Power and Energy, MTC, Cairo, Egypt, from 1988 till now.
- 15- Steering committee member of the MTC International Conference on Electrical Engineering-ICEENG, in: 1998-ICEENG'1, 2000-ICEENG'2, 2002-ICEENG'3, and 2004-ICEENG'4.
- 16- Reporter and co-chairman of the MTC International Conference on Electrical Engineering-ICEENG, in: 2006-ICEENG'5, 2008-ICEENG'6, 2010-ICEENG'7, 2012-ICEENG'8, 2014-ICEENG'9 and 2016-ICEENG'10.
- 17- Establishment of a new international firm: The international foundation for modern education and scientific

research (INFOMESR) – www.infomesr.org

- 18- Organizing different international conferences through INFOMESR: WCEEENG'9, 10, 12, 13 and 14, WCMS'10, 12, 13 and 14, WCSIT'11, 12, 13 and 14, WCPEE'9, 10, 12, 13, 14 and 15; and ICCH'13.
- 19- Publishing different international Journals through INFOMESR: OJEEE, OJPEE, OJMS, OJCSIT, and International Journal on Power Engineering and Energy (IJPEE).
- 20- Organizing different training courses through INFOMESR: IGCSE, SAT and American Diploma, and IB courses, ICDL courses, Different languages courses, Information technology and computer courses, Electrical engineering courses, Statistical analysis courses, and Radiation protection in diagnostic radiology course.
- 21- Training period on: "Strategic Planning: Faculties and Institutes of Higher Education", National Authority for Quality Assurance and Accreditation of Education, NAQAAE, Cairo, Egypt, 2019.

Teaching Interests:

- 1- Electrical Engineering (Electrical Power and Energy Engineering) Courses.
- 2- Mathematics (specially, Statistics) Courses.

Skills:

- 1- IT and Computer skills: Excellent.
- 2- Computer programming and languages: Excellent Fortran, Matlab and Simulink.
- 3- Language skills: native Arabic, and fluent English.
- 4- Driving license: International license, Egyptian license, and USA (VA) license.

List of Already Taught Courses for Undergraduate and Graduates Students:

Design of Electrical Machines - Electric Drives - Electrical Installations - Electrical Power Engineering and Technology - Electromechanical Engineering - Energy Conversion - Generation and Economics of Electric Energy – Modern Power Systems - Power System Analysis - Power System Control - Power System planning - Renewable Energy - Special Electric Machines - Theory of Electrical Machines - Utilization of Electric Energy.

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Mathematics (Pre-Calculus, Calculus, Differential Equations, Linear Algebra, Complex Analysis, Numerical Analysis ... etc.), Probability and Statistics (Descriptive, Analytical, Inferential, Mathematical, Applied ... etc.), Reliability ... etc.

Selected List of Latest Supervised Theses and Dissertations:

- 1- Energy management and operation of virtual power plants (VPPs).
- 2- Recent control approaches of synchronous reluctance machines to minimize torque ripples.
- 3- Low voltage ride through capability enhancement of wind farms using artificial intelligence controllers.
- 4- Virtual inertia control techniques-based stability improvement of power systems penetrated with renewables.

Selected List of Latest Implemented and Applied Researches:

- 1- Design and implementation of a small wind energy electric power station (Wind Cube) 5 kW, 10 kW, 30 kW and 60 kW.
- 2- Design and implementation of a cloud seeding station using reverse engineering.

Current Research Directions:

- 1- Modern power systems: Smart grids, Micro grids, Nano grids, Pico grids ... etc.
- 2- Virtual power plants (VPPs).
- 3- Virtual inertia controllers (VICs).
- 4- Electric vehicles synchronous reluctance motors' (SynRMs) controllers.

Complete List of Published Papers:

<https://www.scopus.com/authid/detail.uri?authorId=57021596700>
<https://www.webofscience.com/wos/author/record/M-2672-2016>
<https://orcid.org/0000-0002-9611-9780>
<https://scholar.google.com/citations?user=pEYmBeMAAAAJ&hl=en>
<https://mtc.academia.edu/waheedsabry>
<https://www.researchgate.net/profile/Waheed-Sabry>

The most Important Conferences Attended:

- 1- 14th World Congress of International Federation of Automatic Control (IFAC'99), Beijing, China, July 1999.
- 2- 19th International Conference on Electricity Distribution (CIRED), IET, Vienna, May 2007.
- 3- 12th International Middle East Power System Conference (MEPCON), IEEE, Aswan, Egypt, March 2008.
- 4- 21st International Conference on Electricity Distribution (CIRED), IET, Prague, Czech Republic, June 2011.
- 5- Workshop in the framework of the British-Norwegian Joint Initiative on Nuclear Disarmament Verification, London, United Kingdom, December 2011.
- 6- Scientific Conference of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO), Vienna, Austria, June 2013.
- 7- 2nd International Conference on Engineering and Technology (ICET 2014), IEEE, Cairo, Egypt, April 2014.
- 8- 20th International Middle East Power System Conference (MEPCON), IEEE, December 2018.
- 9- The Future of Electricity Grids, CIGRE, Cairo, Egypt, March 2019.
- 10- 16th International Conference on Electrical Machines, Drives and Power Systems (ELMA), IEEE, Varna, Bulgaria, June 2019.
- 11- 18th Egyptian Engineering Day (EED), IEEE, Cairo, Egypt, September 2019.
- 12- 22nd, 23rd, 24th and 25th International Middle East Power System Conference (MEPCON), IEEE, December 2021, 2022, 2023 and 2024.

The most Important Committees Involved:

- 1- Member of the coordinating committee for the peaceful uses of nuclear energy, Ministry of Defense, Ministry of Electricity and Renewable Energy, from September 2006 to August 2016.
- 2- Member (and Committee's Rapporteur) of the technical committee for energy, headed by the Commandant of the Military Technical College, from September 2006 to August 2016.
- 3- Member of the Technical Committee for the Preparation of Space and Satellite Studies of the Military Technical College, 1995-2016.

The most Important Certificates and Letters of Thanks and Appreciation Obtained:

- 1- Certificate of thanks and appreciation from the Military Technical College, for the efforts made during the period of obtaining the Ph.D. of Electrical Engineering, specialization of electrical power and energy, from the Military Technical College, 1998.
- 2- Certificate of thanks and appreciation from the Institute of Statistical Studies and Research, Cairo University, for the efforts exerted during the period of obtaining the Master of Math. Statistics, 2002.
- 3- Certificate of thanks and appreciation from the Military Technical College, for the effort made during the 2006/2007 training year.
- 4- Certificate of congratulation from the Military Technical College, for excellence in the academic year 2006/2007.
- 5- Certificate of congratulation from the Military Technical College, for the effort spent during service at the Military Technical College 2011.
- 6- Certificate of Appreciation from the Military Technical College, for the honorable effort during service at the

Military Technical College 2011.

- 7- Certificate of thanks and appreciation from the Military Technical College, for the honorable and commendable effort during his tenure as a member and Rapporteur of the work of the Technical Committee for the preparation of studies on the use of nuclear energy for peaceful purposes under the chairmanship of the Director of the Military Technical College, 2013.

Highlights:

- 1- Scientific, educational, research, academic and technological development of the electrical and energy department of the Military Technical College, from June 2001 to August 2016, during which he served as the head of the department and head of the scientific council of the department.
- 2- My work as a member and reporter for the work of the Energy Technical Committee headed by the Commandant of the Military Technical College, as well as my work as a member of the Coordinating Committee for the Peaceful Uses of Nuclear Energy for the Ministry of Defense, Ministry of Electricity, from September 2006 to August 2016.
- 3- Developing the idea of involving the private sector in the fields of scientific research, through the establishment of INFOMESR.
- 4- The first to introduce the possibility of using supercapacitors in electrical power distribution networks, through a master's thesis entitled with:
"Integrated design technique of electrical power distribution systems"
- 5- Developing the idea of using what is called:
"Home use wind turbines"
Through Wind Cube design (4 stages: 1 kW, 5 kW, 30 kW, and 50 kW), and the design that followed for:
"Home use wind matrix"
- 6- The design and implementation of the cloud seeding station new version using reverse engineering.

Possible Suggested Referees (Available Request):

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| 1- Prof. Amal farouk Abdel-Gawad
00201005245084 | Zagazig University, Zagazig, Egypt
amgawad2001@yahoo.com |
| 2- Prof. Ragab El-Seheimy
00201001281051 | Kafr El Sheikh University, Kafr El Sheikh, Egypt
elsehiemy@eng.kfs.edu.eg |
| 3- Prof. Raafat Abu-Zead
00201122795096 | El-Obour University, Qaliobeya, Egypt
abuzead73@yahoo.com |

Thank You Very Much