

Moataz Mostafa El-Nahas Ali El-sherbini

Address : Abu Zaabal- Old Riad school street - Alqalubia – Egypt

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Career objective

Seeking a challenging position with a reputable corporation, in the field of Computer, communications, or academic field where my skills and knowledge can be utilized and developed.

Personal Information

Nationality	Egypt
Birth date	7/11/1981
Gender	Male
Marital Status	Married (3 Children)
Military Status	Exempted
Religion	Muslem



Education

University Degree	[1] Associate Professor in Electronics and Communications (Sept 2024) [2] PhD Degree in Electronics "Novel Investigations on Simulation Methods for SAW Devices" (June 2016). [3] Msc Degree in Electronics " Recent Applications of SAW Devices in Communications" (August 2012) [4] B.Sc. Engineering (May 2003) - Very Good (rank the first,with honor degree) – Excellent degree of graduation project (Building Management System)
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University	Benha University
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Faculty	Engineering shoubra
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Major	Electronics Engineering
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Current study	Research in Electronics and Communications Engineering
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Work Experience

Current job

Job title	Associate Professor in Electronics and Communications
Employer	[1] Faculty of engineering shoubra) Benha university (Decs. 2003- NOW) [2] (EAE&AT) (Full Time) (Sept. 2019 - Sept.2024) [3] HTI (Higher technological institute , 10th of Ramadan city (Part time) (Sept. 2016 – Sept. 2019)
Employer Country	Egypt
From	Lecturer (31 July 2016). Assistant Lecturer (Oct. 2012) Demonstrator (feb. 2004)
Job description	Teaching
Years of experience	20 years
Teaching Skills	•Antennas and wave propagation. •Electromagnetic Fields, Transmission Lines & Waves •Electronics (semiconductors and applications). •Digital circuits •Principles of Nano electronics •Optical electronics •Analog IC design •Analog communication systems •HTML & web design •Surface acoustic wave devices •Electrical Engineering principles •Electrical circuits (AC, DC). •History of Engineering •Engineering Legislations. •Engineering Ethics • Other subjects in electronics field or communications field

Publications

A- Journal papers

1. Mohamed F. Elkordy, **Moataz M. Elsherbini**, and Aly M. Gomaa, "Modeling and simulation of unapodized surface acoustic wave filter", African Journal of Engineering Research, Abuja, Nigeria, Vol. 1(1), pp. 1-5, February 2013 , ISSN: 2354-2144.
2. Mohamed F. Elkordy, **Moataz M. Elsherbini**, and Aly M. Gomaa, " A comparative Study for SAW Correlators", African Journal of Engineering Research, Abuja, Nigeria, Vol. 1(2), PP. 6-16, March 2013, ISSN: 2354-2144.
3. **Moataz M. Elsherbini**, and Aly M. Gomaa, " Design and Performance of a Multistrip Coupler", Minufiya journal of Electronic Engineering Research, Vol. 23, No. 1, 2 (July 2014), ISSN: (print): 1687-1189 , (Online): 2682-3535.
4. **M. M. Elsherbini**, M. F. Elkordy and A. M. Gomaa , "Towards a Simple Model for SAW Delayline Using CAD", American Journal of Circuits, Systems and Signal Processing, Vol. 1, No. 3, pp86-92, August 2015, ISSN: (Print): 2381-7194 , (Online): 2381-7208.
5. **M. M. Elsherbini**, M. F. Elkordy and A. M. Gomaa, "A Transient Study for SAW Propagation upon GaAs Substrate", International Journal of Materials Chemistry and Physics", Vol. 1, No. 2, pp.182-188, 2015, : (Print): 2471-9609, (Online): 2471-9617.
6. **M. M. Elsherbini**, M. F. Elkordy and A. M. Gomaa, " Insertion Loss Prediction and Monitoring for SAW Delay-line ", International Journal for Research in Emerging Science and Technology (IJREST), Vol. 2, No. 9 , PP. 16-18, 2015 , ISSN: (2349-7610).
7. **M. M. Elsherbini**, M. F. Elkordy and A. M. Gomaa, "Analytical Modeling and Simulation of SAW Filter Using Concave", TELKOMNIKA Indonesian Journal of Electrical Engineering, Vol. 16, No. 3 , pp. 495-501, Dec.2015. (trasfered to Indonesian Journal of Electrical Engineering and Computer Science (IJECS), Vol. 34, No. 3, ISSN: (Print):2502-4752, (Online): 2502-4760, DOI: [10.11591/telkomnika.v16i3.9014](https://doi.org/10.11591/telkomnika.v16i3.9014)
8. **M. M. Elsherbini**, M. F. Elkordy and A. M. Gomaa, "Scattering Parameters prediction for 433MHz SAWR with Minimum Insertion loss", TELKOMNIKA Indonesian Journal of Electrical Engineering, (trasfered to Indonesian Journal of Electrical Engineering and Computer Science (IJECS), Vol.17, No., Jan.2016, pp.78-87, ISSN: (Print):2502-4752, (Online): 2502-4760, DOI: <http://doi.org/10.11591/ijeecs.v1.i1.pp78-87>
9. **M. M. Elsherbini**, M. F. Elkordy and A. M. Gomaa, "Design and Simulation for UHF oscillator using SAWR with different schematics ", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 1, No. 2, pp.2494-299, February 2016 , ISSN: (Print):2502-4752, (Online): 2502-4760, DOI: <http://doi.org/10.11591/ijeecs.v1.i2.pp294-299>
10. **M. M. Elsherbini**, M. F. Elkordy and A. M. Gomaa, "Using COMSOL to model high frequency surface acoustic wave (SAW) device", Journal of Electrical and Electronics Engineering Research, Vol. 1, No. 8, pp.1-8, july 2016 , ISSN: 2141-2367, <https://doi.org/10.5897/JEEER2015.0557>
11. Eslam F. Gamal , **M.M. Elsherbini**, and Hala M. Abdelkader , "Economic Wireless Home Security System Using IOT Module" , Journal of Engineering Sciences (JES) , Assuit University , Egypt , Vol. 47, No.6, pp.807-821, Nov.2019, ISSN:(Print):1687-0530,(Online):2356-8550, DOI: [10.21608/jesaun.2019.115747](https://doi.org/10.21608/jesaun.2019.115747)
12. Waleed Sayed Khadrawy, **M.M. Elsherbini**, Reham S. Saad and Hala M. Abdelkader , "Wax Solvent Displacement in Atoll Development Project Using Ultrasonic Devices: Case Study in the East Nile Delta in Egypt", Menoufia Journal of Electronic Engineering Research, Vol. 29, No. 2, pp. 101-105 , Egypt , july 2020 , ISSN: (Print):1687-1189 , (Online): 2682-3535 , DOI: [10.21608/mjeer.2020.103955](https://doi.org/10.21608/mjeer.2020.103955)
13. Mohammed Abd Elkarim, **M. M. Elsherbini**, Hala M. AbdelKader, Moustafa H. Aly, "Exploring the

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- effect of LED nonlinearity on the performance of layered ACO-OFDM “ , Applied Optics, Vol. 59, No. 24 , pp. 7343-7351, August 2020, **ISSN:** (Print) 1559-128X , (online): 2155-3165 , doi: <https://doi.org/10.1364/AO.397559>.
14. Mohammed Abd Elkarim, Moustafa H. Aly, Hala M. AbdelKader, **M. M. Elsherbini**, “LED nonlinearity mitigation in LACO-OFDM optical communications based on adaptive predistortion and postdistortion techniques “ , Applied Optics, Vol. 60, No. 24 , pp. 7279-7289, August 2021, **ISSN:** (Print) 1559-128X , (online): 2155-3165 ,doi: <https://doi.org/10.1364/AO.432364>.
 15. A.N.Omara, Tarek M. Salem, Sherif Elsanadily, **M.M.Elsherbini**, “SSIM-based sparse image restoration", Journal of King Saud University –Computer and Information Sciences, Volume 34, Issue 8, Part B, Pages 6243-6254, September 2022, **ISSN:** (Print): 1319-1578 , (Online): 2213-1248. doi: <https://doi.org/10.1016/j.jksuci.2021.07.024>.
 16. **M. M. Elsherbini**, Amaal Ashraf, Hager Hesham, Reham Mohammed, Omar Mohsen, Mohamed Hossam, and Mohamed Amr. "Solar based Charging Stations for E-devices." International Journal of Industry and Sustainable Development, Vol. 3, no. 1, 2022, 10-21 , **ISSN:** (Print) 2682-3993, (Online): 2682-4000 , DOI: [10.21608/IJISD.2022.147347.1018](https://doi.org/10.21608/IJISD.2022.147347.1018)
 17. Khairy, A., Islam Mohammed, Mohamed I. Ahmed, and **M. M. Elsherbini**. "The Design of a Superstate NZIM-Antenna Array for WLAN Application." Journal of Engineering Advancements", Vol. 3, No. 3, pp.72-75, 2022, **ISSN:** (Print):2708-6429, (Online): 2708-6437 , doi: <https://doi.org/10.38032/jea.2022.03.001>
 18. B. M. Elhalawany, C. Gamal, A. Elsayed, **M. M. Elsherbini**, M. M. Fouda and N. Ali, "Outage Analysis of Coordinated NOMA Transmission for LEO Satellite Constellations," IEEE Open Journal of the Communications Society, vol. 3, pp. 2195-2202, Nov. 2022, **ISSN:** 2644-125X, doi: <https://doi.org/10.1109/OJCOMS.2022.3221051>.
 19. H. A. Ali, **M. M. Elsherbini** , M. I. Ibrahim," Wavelet Transform Processor Based Surface Acoustic Wave Devices", **Energies**, Vol.15, No.23, 8986 ,2022, **ISSN:** 1996-1073, doi: <https://doi.org/10.3390/en15238986>
 20. Islam M. Ibrahim., Mohamed I. Ahmed, Hala M. Abdelkader, **M. M. Elsherbini**," A Novel Compact High Gain Wide-Band Log Periodic Dipole Array Antenna for Wireless Communication Systems", Journal of Infrared, Millimeter, and Terahertz Waves, Vol (43), pp: 872–894 , Dec. 2022, **ISSN:** (print): 1866-6892, (Online): 1866-6906, doi: <https://doi.org/10.1007/s10762-022-00891-1>.
 21. **M. M. Elsherbini**, Ola Mohammed Aly, Donia Alhussien, ohamed Amr, Moataz Fahmy, mahmoud Ahmed, Mohamed Adel; Mohamed Fetian; Mahmoud Hatem, Mayar Khaled; Nouran Essam, Diaa Mohamed, "Towards A Novel Prototype for Superpower Glass for Autistic Kids", International Journal of Industry and Sustainable Development, Vol.4n No.1,pp. 10-24 , 2023, **ISSN:** (Print) 2682-3993, (Online): 2682-4000, DOI: [10.21608/IJISD.2023.216281.1032](https://doi.org/10.21608/IJISD.2023.216281.1032)
 22. **M.M. Elsherbini**, Mohamed Amr, Donia Alhosin Mohamed, Moataz Fahmy, Diaa Mohamed, Ola Mohammed, "Enhancing Autism knowledge with GUI Solution", The Seventh International Undergraduate Research Conference (2023) of The Military Technical College (IUGRC-7), 2023.
 23. Seham I. A. Elkarim, B. M. ElHalawany, O. M. Ali, **M. M. Elsherbini**, " Machine learning approaches for LoRa networks: a survey", International Journal of Systems, Control and Communications, Vol. 14, No. 4, 357-390, 2023, **ISSN:** (Print) 1755-9340 , (Online): 1755-9359 DOI: <https://doi.org/10.1504/IJSCC.2023.133928>.
 24. R. R. Shafiq, B. M. ElHalawany, Noura Ali, **M. M. Elsherbini**, " A power source for E-devices based on green energy. Energy Harvesting and Systems", Vol.11, No.1, (2024), 20230078 , **ISSN:** 2329-8766
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, doi: <https://doi.org/10.1515/ehs-2023-0078>

25. Islam M. Ibrahim., Nada I. Farah, Mohamed I. Ahmed, Hala M. Abdelkader, Ahmed Jamal Abdullah Al-Gburi, Zahriladha Zakaria, Rania H. Elabd, and **M. M. Elsherbini**, "A Composite Matrix of Mm-Wave Antenna Arrays for 5G Applications" , *Przegląd Elektrotechniczny* , Vol (2024-2) , pp. 17-22, feb **2024**, ISSN: (print): 0033-2097 , (online): 2449-9544 , doi:[10.15199/48.2024.02.03](https://doi.org/10.15199/48.2024.02.03).
26. Islam M. Ibrahim., Mohamed I. Ahmed, Hala M. Abdelkader, Ahmed Jamal Abdullah Al-Gburi, **Moataz M. Elsherbini**, "A Miniaturized and High-Gain Antipodal Vivaldi Antennas Using Directors", *Progress In Electromagnetics Research Letters (PIER)* , Vol(118) , pp. 85-92, March **2024**, ISSN: 1937-6480 , doi:[10.2528/PIERL24020202](https://doi.org/10.2528/PIERL24020202).
27. Islam M. Ibrahim., Mohamed I. Ahmed, Hala M. Abdelkader, **M. M. Elsherbini**, " An optimized design for motivated broadband LPDA antenna", *Scientific reports*, Vol (14), No: 7413, March **2024**, ISSN: 2045-2322, doi: <https://doi.org/10.1038/s41598-024-57449-5>.
28. Ali, H. A., Elsherbini, M. M., Ibrahim, M. I., Omara, A. N., & AbdelKader, H. M. (2024). ECM Approach for Filter Design-Based Wavelet Transform Using SAW. *International Journal of Industry and Sustainable Development*, 5(1), 115-122.
doi: [10.21608/IJSD.2024.283528.1046](https://doi.org/10.21608/IJSD.2024.283528.1046)
29. S. I .Elsanadily,, M. G. Abdellatif, M. K..Osman., M. M. Elsherbini , A. N. Omara, (2025). Enhancing Driver Safety Using an Intelligent Driver Assistance System. *International Journal of Industry and Sustainable Development*, 1-21.
doi: [10.21608/IJSD.2024.298431.1069](https://doi.org/10.21608/IJSD.2024.298431.1069)

B- Conferences:

1. Waleed Sayed Khadrawy, **M.M. Elsherbini**, Reham S. Saad and Hala M. Abdelkader , " Towards High Accuracy Measurements for Gas Flow Rate Using Ultrasonic Devices in Oil Fields", 13th International Computer Engineering Conference (ICENCO), IEEE, Dec. **2017**, ISSN: 2475-2320
doi: [10.1109/ICENCO.2017.8289784](https://doi.org/10.1109/ICENCO.2017.8289784).
 2. Mostafa A. Mohamed, Amr Essam Anwar, Ahmed M. Sobh, Hend T. El-Saloussi, Gerges H. Gerges, Moataz E. Fahmy and Selim A. Selim, **M.M.Elsherbini**, " Smart Healthcare Monitoring System for Covid-19 Quarantine Patients ", 5th IUGRC International Undergraduate Research Conference, Military Technical College, Cairo, Egypt, August, **2021**, doi: [10.21608/iugrc.2021.246214](https://doi.org/10.21608/iugrc.2021.246214)
 3. Seham Ibrahim Abd Elkarim, **M.M. Elsherbini**, Ola Mohammed, Waliulah Khan, Omer Waqar, Basem M. ElHalawany, " Deep Learning Based Joint Collision Detection and Spreading Factor Allocation in LoRaWAN", ICNet2022-IEEE conference, April **2022** , ISSN: (Print): 1545-0678 , (Online): 2332-5666, doi: [10.1109/ICDCSW56584.2022.00043](https://doi.org/10.1109/ICDCSW56584.2022.00043)
 4. R. R. G. Shafiq, B. M. ElHalawany and **M. M. Elsherbini**, "Radio-Frequency Energy Harvesting Systems for GSM and WiFi Bands" 2022 IEEE International Conference on Design & Test of Integrated Micro & Nano-Systems (DTS), 2022, pp. 01-06 , doi: [10.1109/DTS55284.2022.9809868](https://doi.org/10.1109/DTS55284.2022.9809868)
 5. R. R. G. Shafiq, **M. M. Elsherbini**, A. N. Omara and B. M. ElHalawany, "Green Energy Scavenging for Powering Mobile Phones" **2022** International Telecommunications Conference (ITC-Egypt), **2022**, pp. 1-6 , doi: [10.1109/ITC-Egypt55520.2022.9855728](https://doi.org/10.1109/ITC-Egypt55520.2022.9855728)
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Experiences (EAEAT from 2019 - 2024)

- Head-in-charge of the Electrical Engineering Department In EAEAT (Transitional Period: June – August 2020)
- Member in Future Vision pioneers Initiative (FVP) of Ministry of Higher Education (2022)
- E-Library Founder and manager (jan 2022 –August 2023)
- Chairman of the Clearings and Transfers Committee 2023-2024
- Editorial Board member in International Journal of Industry and Sustainable Development (2022 –Now)
- Internal Audit Committee member
- QA Stanadard team member "Staff and TA standard" 2021-2023
- Secretary of the Electrical Engineering Department Council 2019-2024
- Participation in developing the EAEAT academy's website
- Participation in Preparing New EAEAT Bylaw 2024-2029
- preparing the student guide and graduation party booklet 2023
- Participation in establish of NUST university 2022-2024

Peer Reviewer

- **More than 46 papers reviewed in:**
- IEEE internet of things journal.
 - China Communications journal
 - Microsystem Technologies.
 - SCIRP academic publisher.
 - WSEAS transactions on circuits.
 - WSEAS transactions on communications.
 - WSEAS transactions on electronics.
 - WSEAS transactions on information science and applications.
 - WSEAS transactions on systems and control.
 - American Journal of Circuits, Systems and Signal Processing.
 - International Journal of Life Science and Engineering.
 - Editor board member at American Journal of Information Science and Computer Engineering.
 - Editor board member at American Journal of Circuits, Systems and Signal Processing.
 - Editor board member at Journal of Nanoscience and Nanoengineering.
- **Also, A member of examination committee** for graduation projects in shoubra faculty of Engineering, Egyptian Academy for Engineering And Advanced Technology , and STEAM schools.

Thesis Supervision

(DISCUSSED)

- **Msc** in "Towards an Economic Model for Secure Systems in Smart Homes". Eng. Eslam Fawzy Gamal (DEC. 2019)
- **Ph.D** in "Improvement of Flow rate in Gas and Oil Fields Using Ultrasonic Devices Trough Distributed Control System (DCS)", Eng. Waleed khadrawy, (MAY 2020)

- **Ph.D** in High performance indoor optical communication system Based on VLC using Multiple subcarrier Modulation Techniques, Eng. Mohamed Abdel-Karim (NOV. 2021).
- **Msc** in “Economic Power Harvesting System Using Renewable Sources” , Eng. Raghda R. Shafiq , **(Nov. 2022)**
- **Ph.D** in Millimeter wave antenna arrays in communications, Eng. Islam M. Gomaa **(MAY 2024)**
- **Ph.D** in A machine-Learning Approach for Analyzing Collisions in LoRa networks, Eng. Seham Abdelkareem (**Jan 2023**).

(Still Working)

- **Ph.D** in Wavelet transform based on SAW devices **(Reg. Jan 2023)**.

Languages

Arabic : Excellent
English : Excellent

Technical Summary

Computer Skills:

- Full ICDL certification.
- Computer Maintenance (H/W, and S/W).
- Using simulation programs as COMSOL, PTC Mathcad, ADS.
- Using Matlab in math. Functions and simulation.
- Using Smart boards and Graphic tablets as teaching tools.
- Technical report writing.

Additional Skills:

- Flexibility and ability to work within teams
- Ability to learn quickly
- Leadership skills , Analytical way of thinking
- Highly adaptable, with creative problem solving skills
- Hard worker , Ambitious

Courses and training:

- Free training in national telecommunications institute (NTI).
- Free training in Ain shams university in" Engineering skills".
- Course from telecommunications ministry in using CADENCE tools in analog and digital chips design.
- ICDL course training at Shoubra faculty of engineering.
- RFID challenge & future vision (workshop) from Electronics Research Institute 2020
- Entrepreneurship course from EDX 2021.
- 9 Courses in QA and FLDC from NAQAAE , Ain shams University, Benha University , Helwan University and EAEAT (2020-2024).
- Sketch Up: how to start modeling simple 3D object course from Coursera 2024.

INTERESTS:

- Reading, poet writing, Computer, Internet, football, ping bong.