Alshimaa Hamdy Ismail

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PROFESSIONAL SUMMARY

- Lecturer in Computer Science and Engineering.
- International professional trainer certified by national education network (NEN).
- 12 years of experience in education and research.
- Arab Foundation of Young Scientists, Member.
- Experienced in course specification, NARS, and academic standards.
- Experienced in quality assurance and accreditation procedures.
- Qualified lecturer in several subjects in telecom and electronic engineering and computer science.

Reference Websites:

- **ORCID:** orcid.org/0000-0003-4650-0484
- **Web of Science Researcher ID:** publons.com/researcher/AAP-2239-2020/
- **Google Scholar Citation:** Dr. Alshimaa Hamdy (Alshimaa H. Ismail)

WORK EXPERIENCE

Faculty of Artificial Intelligence Delta University   Sep 2021 — Aug 2022

Lecturer, Cyber Security Department (Full Time)

- Delivering lectures in data communications, digital and logic circuits, structural programming, and object oriented programming.
- Prepare questions Banks and exams.
- Academic guidance for students.
- Participated in the following quality assurance committees as coordinator or member (Surveys, Training, Academic Standards and Educational Programs, Students Activities, and Strategic Planning).
- Initiated and participated with teams in several Hackathons and events.
- Participated in several conferences.

Delta Higher institute for Engineering & Technology   Dec 2019 — Present

Lecturer , Department of Communication and Electronics Engineering

- Head of the academic and faculty staff measurements in the quality assurance and accreditation department.
- Delivering lectures in mobile communication, transformers and electrical machines, computer skills, electrical circuits, electrical communication and electronics.
- Delivering lectures in microprocessor, computer networks, operating systems, computer programming, computer architecture.
- Conducting and preparing the practical exercises and courses for the students.
- Serving in academic and administrative committees to deal with institutional policies.
- Supervising and guiding in graduation projects.

Delta Higher institute for Computer Science
Part Time — Present

Lecturer , Department of Computer Science

- Delivering lectures in digital marketing, e-commerce, microprocessor, computer networks, computer programming, computer architecture.
- Conducting and preparing the practical exercises and courses for the students.
- Supervising and guiding in graduation projects.

Egyptian Ministry of Communications and Information Technology
Feb 2021 — Present

Authorized Trainer

- Training government employees within the Egyptian project of digital transformation.
- Training subjects (AI, IoT, OS, Cloud Computing, Big Data, Blockchain, Mobile Applications, e-wallets, and digital transformation in government systems).

Delta Higher institute for Engineering & Technology
March 2015 — Nov 2019

Assistant Lecturer, Department of Communication and Electronics Engineering

- Member of the quality assurance and accreditation team in my institute.
- Carried out practical sessions with an explanation about the purpose of the experiment and the procedures.
- Delivered lectures in the absence of a professor.
- Organized several field trips for the students.
- Conducted and prepared the practical exercises and courses for the students.
- Participated in student recruitment, registration, and placement activities.
- Served in academic and administrative committees to deal with institutional policies.
- Initiated, facilitated, and moderated classroom discussions.
- Prepared the mid-term exams and participated in the exams control room.

Delta Higher institute for Engineering & Technology
October 2009 — February 2015

Teaching Assistant, Department of Communication and Electronics Engineering

Teaching The Following Courses:
- C, C#, Matlab, Open CV, OPNET, Packet Tracer, Assembly, Java and VB.
- Computer Networks, Cloud Computing, Computer Architecture and Neural Networks.
- DSP, Machine Learning, Computer Vision and Image Processing.
- PLC & Microcontroler.
- Calculus, Linear Algebra, Physics, Chemistry, Electronic Circuits, Machines, and Thermodynamics.

EDUCATION

Ph.D in Electrical Engineering, Department of Electrical Engineering
Septemper 2017 — December 2019

Faculty of Engineering - Minia University

Submitted Thesis: Development of Efficient Mobile Cloud Computing Model for Green Computing

M.Sc in Electronic Engineering, Department of Computer Science and Engineering
— March 2015

Faculty of Electronic Engineering - Minufia University

Submitted Thesis: An Efficient Active Queue Management Based Congestion Control Technique for TCP/IP Networks.

Bachelor, In computer science,   **— July 2009**
Department of Computer
Science and Engineering
Faculty of Electronic Engineering - Minufia University

- Graduation Project: Integrated Organization for Future View and Development (IOFVD) with Grade Excellent.
- Graduation Grade: Very Good.

RECENT PUBLICATIONS

1. Alshimaa H. Ismail, Zeiad Elsagheer and I. Z. Morsi, "Survey on Random Early Detection Mechanism and Its Variants", IOSR Journal of Computer Engineering (IOSRJCE)ISSN: 2278-0661 Volume 2, Issue 6 (July Aug. 2012), PP 20-24.
2. Alshimaa H. Ismail, Ayman EL-SAYED, Zeiad ELSAGHIR and Ibrahim Z. MORSI, "Enhanced Random Early Detection (ENRED)", International Journal of Computer Applications (0975 – 8887) Volume 92 – No.9, April 2014. DOI: 10.5120/16039-5015
3. Ismail, A. H., El-Bahnasawy, N. A., & Hamed, H. F. (2019). "AGCM: Active Queue Management-Based Green Cloud Model for Mobile Edge Computing". Wireless Personal Communications, 104(4), 1-21. DOI: 10.1007/s11277-019-06119-1
4. Ismail, A. H., Tarek Abed Soliman, Gerges M. Salama, El-Bahnasawy, N. A., & Hamed, H. F. (2019) "Congestion-Aware and Energy-Efficient MEC Model with Low Latency for 5G". presented in IEEE JAC-ECC 2019, E-Just, Egypt.
5. Alshimaa H. Ismail, El-Sayed M. El-Kenawy, Marwa Eid. A New Model for Measuring Customer Utility Trust in Online Auctions. International Journal of Computer Applications. ISBN: 973-93-80900-94-6. April 202.
6. Salama GM, Alshimaa H. Ismail, Soliman TA, Hamed HFA, El-Bahnasawy NA. Congestionaware multiaccess edge computing collaboration model for 5G. Int J Commun Syst. 2020;e4446. https://doi.org/10.1002/dac.4446.

7. Reviewer for Wiley, IEEE, Springer.

OTHER CERTIFICATES

- "Professional Trainer", National Education Network (NEN) Aug 2021.
- "International Teacher", National Education Network (NEN) Aug 2021.
- "Instructing of Digital Transformation Fundamentals", New Horizon July 2021.
- "Teaching and Learning Strategies", Egypt's Universities Supreme Council 2021.
- "Evaluation Methods and Question Banks Preparation", Mansoura University 2020.
- "Database Research and Scientific References Management "Endnote"", Menia University 2019.
- "English Proficiency Exam (EPE)" - Score 591, Menia University 2019.
- "Exams Systems and Students Evaluations", Menia University 2019.
- "Scientific Research Ethics and Writings", Menia University 2019.
- "Statistical Analysis Using SPSS", Menia University 2019.
- "Credit Hours System", Mansoura University 2018.
- "Communication Systems and Trunks" Telecom Egypt 2018.

RECENT ACTIVITIES

- "International Conference of Cybersecurity Innovation Series Egypt Edition" March 2022
- Participated in general social volunteering activities with social solidarity administration.
- Raised the digital awareness of my institute employees by instructing "Digital Transformation" course.
- Participated as instructor in digital transformation project of Egypts Telecommunication Ministry.
- Served as member of judgement committee for STEM schools from 2016-present.
- Served as member of judgement committee for "Engineering Sciences Fair" from 2016-prsent.
- "How To Succeed in Listening" Online Workshop, American Embassy in Cairo Sep 2021.
- "Digital Transformation" Online Workshop, Egyptian Engineering Syndicate Aug 2021.
- "International Science and Engineering Fair" - Evaluation Committee, Ministry of Education Jan 20, Jan 21.
- "International Japan-Africa Conference", E-JUST 2019.
- "Ideal Employee", Delta Academy 2016.
- "Two-Day Field Trip Expedition", Telecom Egypt (WE) 2018.
- "Electronic Media Impact on Preserving Egyptian Identity" Conference, Mansoura University 2016.

SKILLS

- E-learning Platforms and Course Management Systems.
- Preparation of Electronic Exams Using MOODLE Platform.
- Quality Assurance and Accreditation Measurement.
- Course Specification, NARS, and Academic Standards.
- Scientific Expeditions.
- Preparation of Scientific Materials and Courses.
- MATLAB, JAVA, C#,Open CV, OPNET, Packet Tracer, Assembly, VB, Oracle, HTML, SQL, Python, and NS2.
- Sufficient knowledge about MCSE & CCNA.
- Computer Architecture and Assembly Language.
- Analytical and Problem Solving.
- Ability to Learn, Practice and Adapt To New Technologies and Systems.
- English Writing and Speaking.

REFERENCES

1. Prof. Hesham Fathi Ali Hamed, Professor of Electronics Depart. Of Electrical Engineering, Faculty of Engineering, EL-Minia University. Counselor, Russian University in Egypt.
   Phone Number: +2 010 920 83 83 5
   E-mail: hfah66@yahoo.com

2. Prof. Sayed Mahmoud El Rabaie, Department of Communication Engineering, Faculty of Engineering, Menofia University.
   Phone number: +2 0128 498 5170
   E-mail: elsayedelrabaie@gmail.com

3. Prof. Ayman Elsayed Ahmed, Dean of Faculty of Engineering, Menofia University.
   Phone number: +2 0100 347 1783
   E-mail: ayman.elsayed@el-eng.menofia.edu.eg