



Amr Ahmed Hassanain

PROFILE

Dynamic and accomplished professional with a solid foundation in computer science and a fervent dedication to advancing the field's educational and research endeavors. Demonstrated expertise in curriculum development, instructional design, and the integration of emerging technologies to enrich student learning experiences. Skilled at leveraging interdisciplinary insights to address complex challenges in computer science education and research. Proven ability to mentor students, lead research projects, and foster collaborative relationships within academic and industry settings. Recognized for blending technical proficiency with strategic vision to achieve outstanding outcomes that propel the field forward

EDUCATIONAL DEGREES

PHD in Biomedical Engineering

Faculty of Engineering – Helwan University | 2023

Master of Biomedical and Systems

Faculty of Engineering – Cairo University | 2014

Bachelor of Biomedical and Systems | 2009

PROFESSIONAL EXPERIENCE

Assistant Professor (full -Time)

Faculty of Computer science, Nahda University in Beni-sueif| 2023–Present

Key Responsibilities:

- Designed and delivered engaging lectures, seminars, and workshops in Computer science disciplines.
- Developed and implemented innovative teaching methodologies, incorporating multimedia resources and real-world examples to enhance student understanding and engagement.
- Mentored undergraduate and graduate students, providing academic guidance, career counseling, and research supervision, resulting in publishing research papers in prestigious peer-reviewed journals.
- Collaborated with faculty members on interdisciplinary research initiatives, fostering a culture of academic excellence and intellectual curiosity within the department.
- Engaged in professional development activities, such as attending workshops, conferences, and training sessions, to stay abreast of emerging technologies and pedagogical approaches.

Key Achievements:

- Publication in Prestigious Journals/Conferences:
- Development of Innovative Teaching Methods
- Leadership in Academic Initiatives as the chairman of activity committee in the faculty.

CONTACT

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Manfalot–Assiut – Egypt



PERSONAL INFO

- Nationality: Egyptian
- Date of Birth: Jul 1987
- Marital Status: Married
- Military Status: Exempted

LANGUAGES

- English: Very Good (B2)
- French: Intermediate (A2)
- Arabic: Native (C2)

KEY SKILLS

- Subject Matter Expertise
- Effective Teaching Skills
- Circuit Design and Analysis
- Medical Device Prototyping
- Signal Processing and Analysis
- Quality Control in Healthcare
- Documentation
- Research Methodology and Publication
- Professional Development
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PROFESSIONAL EXPERIENCE

Assistant Professor (Part -Time)

Higher Technology institute in Beni-sueif| 2023–Present

Key Responsibilities:

- Designed and delivered engaging lectures, seminars, and workshops in Computer science disciplines.
- Developed and implemented innovative teaching methodologies, incorporating multimedia resources and real-world examples to enhance student understanding and engagement.
- Mentored undergraduate and graduate students, providing academic guidance, career counseling, and research supervision, resulting in publishing research papers in prestigious peer-reviewed journals.
- Collaborated with faculty members on interdisciplinary research initiatives, fostering a culture of academic excellence and intellectual curiosity within the department.
- Engaged in professional development activities, such as attending workshops, conferences, and training sessions, to stay abreast of emerging technologies and pedagogical approaches.

Key Achievements:

- Publication in Prestigious Journals/Conferences:
- Development of Innovative Teaching Methods

Area Manager

Wadi El Nile Company | 2014–2023

Key Responsibilities:

- Oversee the maintenance operations of Assiut General Hospital, ensuring the smooth functioning of all medical equipment and facilities.
- Manage a team of technicians, providing guidance, training, and performance evaluations.
- Develop and implement maintenance plans and procedures to optimize equipment performance and minimize downtime.
- Collaborate with hospital staff and department heads to address maintenance needs and prioritize repairs.

Key Achievements:

- Implemented a preventive maintenance program, resulting in a significant reduction in equipment breakdowns and improved equipment reliability. Successfully managed the installation and commissioning of new medical equipment, ensuring seamless integration with existing systems.
- Led a team in the successful completion of a major equipment upgrade project, enhancing the hospital's capabilities and patient care outcomes. Implemented process improvements that reduced response time for maintenance requests by 20%.

Service Engineer

Assiut University Hospitals | 2010–2014

Key Responsibilities:

- Conducted maintenance and repair of medical equipment, including diagnostic machines, surgical tools, and patient monitoring systems.
- Collaborated with the medical staff to identify equipment issues, troubleshoot problems, and provide technical support.
- Implemented preventive maintenance schedules to ensure optimal performance and minimize downtime.
- Managed inventory of spare parts and equipment, coordinating with suppliers for timely procurement.

Key Achievements:

- Successfully resolved critical equipment breakdowns, reducing downtime by 20% and ensuring uninterrupted patient care.
- Implemented an equipment calibration program, resulting in improved accuracy and reliability of diagnostic machines.
- Streamlined the inventory management process, reducing costs by 15% while maintaining adequate stock levels.

CERTIFICATIONS

Quality Standards in Teaching Training Course Certificate:

Certificate on "Quality Standards in Teaching" at Faculty and leadership Development Center, Cairo University.

Exams and Students Evaluation Systems Training Course Certificate:

Certificate on "Exams and Students Evaluation Systems "at Faculty and leadership Development Center, Cairo University.

Programming Language Certificate:

Certificate on programming languages such as C and C++ from the Training Center in the Biomedical Engineering Department at Cairo University.

Summer Training Certificate:

Assiut University Hospitals Certificate for Summer Training in 2006.

Introduction to Biomedical Engineering Certificate:

Amira Medical Certificate for Training on Introduction to Biomedical Engineering and Basics of Office.

Sensor and Transducer Training Certificates:

BST Company Certificate for Training on Sensors and Transducers and Their Applications.

ECG and EEG Training Certificate:

BST Company Certificate for Training on ECG (Electrocardiogram) and EEG (Electroencephalogram).

Ventilator and Anesthesia Devices Training Certificate:

BST Company Certificate for Training on Ventilators and Anesthesia Devices.

X-ray and Ultrasound Devices Training Certificates:

BST Company Certificates for Training on X-ray and Ultrasound Devices.

Thankful Letters:

Thankful Letter from Assiut University Hospital.

Thankful Letter from Assiut General Hospital.

PUBLICATIONS

Amr A. Hassanain, Mohamed A. A. Eldosoky, and Ahmed M. Soliman. **"Hospital Redesign Based on International Standards: Literature Review."** Journal of Clinical Engineering 46(2): 68–84, 4/6 (2021). [Indexed in Scopus] [DOI: 10.1097/JCE.0000000000000457]

Amr A. Hassanain, Mohamed A. A. Eldosoky, and Ahmed M. Soliman. **"Evaluating Building Performance in Healthcare Facilities using Entropy and Graph Heuristic Theories."** Scientific Reports 12, 8973 (2022). [Indexed in Scopus and Web of Science Q1 (4.997)] [DOI: 10.1038/s41598-022-13004-8]

Amr A. Hassanain, Mohamed A. A. Eldosoky, and Ahmed M. Soliman. **"Healthcare Facilities Redesign Using Multicriteria Decision-Making: Fuzzy TOPSIS and Graph Heuristic Theories."** Journal of Healthcare Engineering (2023). [Indexed in Scopus and Web of Science Q2 (3.9)] [DOI: 10.1155/2023/9648510]

Amr A. Hassanain, Mohamed A. A. Eldosoky, and Ahmed M. Soliman. **"Smartphone Application Based on Entropy Algorithm for the Evaluation of Healthcare Facilities."** International Journal of Telemedicine and Applications (2023). [Indexed in Scopus and Web of Science Q2 (under

publication)]

- Amr A. Hassanain et.al .**HEMLM: Hybrid Extreme Machine Learning model for Predicting Heart**. IEEE Access(2024) [Indexed in Scopus and Web of Science Q2 (under publication)]
- Amr A. Hassanain et.al . **Measuring the Depreciation Rate of Medical Devices: A Comparative Analysis the Main Value of Medical Devices f**. IEEE Access(2024) [Indexed in Scopus and Web of Science Q2 (under publication)]

Teaching Experience:

1- Data Structures

Description: Covered fundamental data structures and algorithms including arrays, linked lists, stacks, queues, trees, and graphs.

Institution: Faculty of computer science, Nahda University in Benisueif.

Duration: Fall 2023

2- Algorithms

Description: Explored various algorithm design paradigms such as greedy algorithms, dynamic programming, and divide-and-conquer techniques.

Institution: Faculty of computer science, Nahda University in Benisueif.

Duration: Spring 2023.

3- Information Technology

Description: Introduced students to core concepts and principles of information technology, including hardware, software, networks, and security.

Institution: Faculty of computer science, Nahda University in Benisueif.

Duration: Fall 2023

4- Essential Information Technology

Description: Covered essential topics in information technology, including database systems, web development, and cybersecurity fundamentals.

Institution: Faculty of computer science, Nahda University in Benisueif.

Duration: Spring 2023.

5- Modelling and Simulation

Description: Explored techniques and methodologies for modeling real-world systems and simulating their behavior.

Institution: Higher Technology institute in Benisueif.

Duration: Spring 2023.

6- System of Queuing and Simulation

Description: Covered queuing theory principles and techniques for simulating queuing systems to analyze performance and optimize resource allocation.

Institution: Higher Technology institute in Benisueif.

Duration: Spring 2023.

7- Digital Logic Design

Description: Introduced students to the design and implementation of digital circuits using basic logic gates and sequential logic components.

Institution: Higher Technology institute in Benisueif.

Duration: Spring 2023.

8- Operating System II

Description: Explored advanced topics in operating systems such as process synchronization, memory management, file systems, and virtualization.

Institution: Higher Technology institute in Benisueif.

Duration: Spring 2023.