Curriculum Vitae (CV)

Mahmoud Mohamed Hamed Ali Yousef

Personal Information:

Academic Rank: Assistant Professor

Department: Electrical Engineering

Specialization: Electronic and Communication Engineering

Position: Assistant Professor at Electrical Engineering Department

Google Scholar: Mahmoud Mohamed - Google Scholar

Research Gate: Mahmoud M. Hamed

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<div align="center">**Education:**</div>

Degree	Discipline	Institution	Year
Ph.D.	Electronics and Communication Engineering	*Minia University*	2021
M.Sc.	Electronics and Communication Engineering	Arab Academy for Science, Technology & Maritime Transport	2015
B.Sc.	Electrical Engineering	Higher Technological institute, 10th of Ramadan *6th of October branch*	2007

<div align="center">**Academic Experience:**</div>

Institution: Higher Technological Institute H.T.I, 10th of Ramadan, 6th of October branch

Rank: Assistant Professor

Dates: 2021 - Present

Institution: Higher Technological Institute H.T.I, 10th of Ramadan, 6th of October branch

Rank: Research Assistant (PhD student)

Dates: 2015 - 2021

Institution: Higher Technological Institute H.T.I, 10th of Ramadan, 6th of October branch

Rank: Teaching Assistant

Dates: 2007 - 2015

Research interests:

- Visible light communication
- Photonic crystal
- sensors
- Machine learning
- Optical communication
- Digital communication

Publications:

1- Mahmoud M. Hamed, Suzan Shukry, Mohamed S. El-Mahallawy and Salwa H. El-Ramly, "Modified Earliest Deadline First Scheduling with Channel Quality Indicator for Downlink Real-Time Traffic in LTE Networks," *the 3th The Third International Conference on e-Technologies and Networks for Development (ICeND2014),* Faculty of Engineering – Lebanese University, Campus of Hadath, Beirut -Lebanon, pp. 8-12, May 2014.

2- Mohammed, Nazmi A., Mahmoud M. Hamed, Ashraf AM Khalaf, Abdulaziz Alsayyari, and S. El-Rabaie, "High-sensitivity ultra-quality factor and remarkable compact blood components biomedical sensor based on nanocavity coupled photonic crystal," *Results in Physics,* vol. 14, 102478, 2019.

3- Mahmoud M. Hamed, Mohammed, Nazmi A., Ashraf AM Khalaf and S. El-Rabaie, "A compact photonic crystal based multi-type cancer sensor with ultra-quality factor and sensitivity for next generation biosensors," *Journal of Engineering Sciences Assiut University Faculty of Engineering.* (Accepted for publication May 2020)

4- Mohammed, Nazmi A., Mahmoud M. Hamed, Ashraf AM Khalaf, and S. El-Rabaie, "Malaria biosensors with ultra-sensitivity and quality factor based on cavity photonic crystal designs," *The European Physical Journal plus,* 135, 933, 2020.

Certifications or Professional Registrations:

IBM Company Training About (Server, Printer and Storage)   **January 2007**

New Horizons Company   **May 2006**
- CCNA "Cisco Certified Network Association"
- Design a simple LAN using Cisco Technology

Video Cairo Sat Company   **May 2005**
- Master Control Room (MCR)
- Satellite New Gathering (SNG)
- Studio

Telecom Egypt Training about Fundamentals of   **May 2004**
- Electronic circuits
- Logic circuits
- Analog Communication

National quality assurance agency
- Unifying concepts for quality assurance
- Strategic plan design for higher education institutes
- Course description design
- Scientific thinking and argumentation skills for problem solving
- Design and preparation of self-study of institutions of higher education
- Questionnaire's design and data collection methods
- Program design according to NARS requirements

DAD
- Design and evaluation of examination papers
- Proposal writing for post Docs
- Academic program design according to NARS 2018
- Learning through projects

Faculty Development Center - Minya University
- EndNote
- Statistical Package for the Social Sciences (SPSS)

Faculty Leadership Development Center - Minya University
- Ethics of scientific research
- Develop the skills of training, presentation and communication for students
- Fundamentals of digital transformation certificate

Teaching Experience:

Higher Technological Institute H.T.I, 10th of Ramadan, 6th of October branch

• Part time Teaching Assistant Engineer	**October**	**2007**	**-**	**January**	**2008**
• Teaching Assistant Engineer	**January**	**2008**	**-**	**August**	**2015**
• Assistant Lecturer	**August**	**2015**	**-**	**June**	**2021**

Courses taught

- Principles of Electric Circuits
- Electronic circuits
- Data Communication and Networking
- Electromagnetic fields
- Antenna
- Communication 1 – Analog Communication
- Communication 2 – Digital Communication
- Communication 3 – Optical Communication
- Electronic 3
- Computer Skills
- Computer Programming
- Electronic 4
- Digital Logic Design