

Curriculum Vitae (CV)



Kareem Ahmed Badawi Abd Al-Rahman

Personal Information:

Academic Rank: Assistant Professor

Department: Electrical Engineering

Specialization: Electronic and Communication Engineering

Position: Assistant Professor at Electrical Engineering Department

Google Scholar: Kareem Ahmed Badawi - Google Scholar

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Education:

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	2016
B.Sc.	Electrical Engineering	Higher Technological institute, 10 th of Ramadan 6 th of October branch	2010

Academic Experience:

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: 2018 - 2021

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

Rank: Teaching Assistant

Dates: 2011 - 2018



Research interests:

- Visible light communication
- Artificial intelligence
- Machine learning
- Optical communication
- Satellite communication
- Digital communication

Publications:

- Badawi, K.A., Mohammed, N.A. and Aly, M.H., 2018. Exploring BER performance of a SC-LPPM based LOS-VLC system with distinctive lighting. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 20(5-6), pp.290-301.
- Mohammed, N.A. and Badawi, K.A., 2018. Design and Performance Evaluation for a Non-Line of Sight VLC Dimmable System Based on SC-LPPM. IEEE Access, 6, pp.52393-52405.
- Mohammed, N.A., Badawi, K.A., Khalaf, A.A. and El-Rabaie, S., 2020. Dimming control schemes combining IEEE 802.15. 7 and SC-LPPM modulation schemes with an adaptive M-QAM OFDM for indoor LOS VLC systems. Opto-Electronics Review, pp.203-212.
- Mohammed, N.A., Badawi, K.A., Khalaf, A.A. and El-Rabaie, S., 2020. Performance Evaluation of Utilizing M-QAM OFDM with SC- LPPM for Indoor LOS-VLC Systems. Journal of Advanced Engineering Trends Minya University, Faculty of Engineering.

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<u>Certifications or Professional Registrations:</u>

National Telecommunication Institute, Cairo, Nasr City • Electronics		
OrCAD Simulator & Practical implementation		
 Industrial Systems Training Center, Cairo, Mid Town PLC Touch Screen SCADA (Fair Skills) 	2008	
 New Horizons Training Center, Giza, 6th Of October Mobile Package (GSM, GPRS, CDMA,& UMTS) WiMAX & LTE Basics 	2009	
 Systel (Motorola Cooperation), Smart Village, 6th Of October WiMAX [IEEE 802.16e - 2005] 	2010	
 Legends Center, District VII, 6th of October Time Management Communication Skills 	2010	
 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 	2012 2013 2014 2015 2016 2017 2022	
 Design and evaluation of examination papers Proposal writing for post Docs Academic program design according to NARS 2018 Learning through projects 	2018 2019 2022 2022	
 Faculty Development Center - Minya University EndNote Statistical Package for the Social Sciences (SPSS) 	2019 2019	
 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 	2019 2019 2021	



Honors and Awards:

• Ideal teaching assistant engineer for electrical and computer department 2016.

Teaching Experience:

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

•	Part time Teaching Assistant Engineer	October	2010	-	June	2012
•	Teaching Assistant Engineer	June	2012	-	August	2018
•	Assistant Lecturer	August	2018	-	June	2021

Courses taught

- Principles of Electric Circuits
- Artificial Intelligence
- Data Communication and Networking
- Electric Circuits 2
- RF Circuits Design
- Communication 1 Analog Communication
- Communication 2 Digital Communication
- Communication 3 Optical Communication
- Wireless Communications
- Computer Skills
- Computer Programming
- Quality Engineering
- Digital Logic Design