

Curriculum Vitae _ Dr. Majidah Hameed Majeed

Objective

To earn a position of responsibility in the fields of Analogue and Digital Communication Engineering, Encoding in optical communications and optical wireless communications, that enables me to utilize my skills and theoretical expertise to serve university teaching and working.

Personal Information

Academic degree: **Lecturer**
 ORCID: 0000-0002-2323-7575
 h-Index: 3:0
 Birth Date & Place: August, 3, 1960 – Iraq
 Nationality: Iraqi
 Passport Number: A12973639 valid until 04- 03-2026
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Professional Strength and Skills

- Very effective by digital communication and Design of the digital optical encoding and modulation formats for optical communication and wireless optical communication systems.
- Wide theoretical knowledge in the most subjects of electronics and communication engineering such as :- Analog communication, Digital Communication, Electric Circuits, Analog Electronics, Digital Electronic, Signal and Systems , Automatic Control Systems , Programmable Logic Controller, Digital Control, Control Tools and Energy Transducer, Radar Systems, satellite Communications, Cellular mobile Networks, TV and Broadcasting Systems, Numerical Methods and Microwave.

Educational Qualifications

- PhD. Electronics and Communication, 2016 – 2017, Collage of Engineering, University of Baghdad.
- MSc. Electronics and Communication, 1988 – 1989, Collage of Engineering, University of Baghdad.
- BSc. Electrical Engineering, 1982 – 1983, Collage of Engineering, University of Mosul.

Memberships and Academic positions

- Lecturer in communication engineering techniques department-college of technical engineering and college of engineering -Uruk University from 6/12/2020 till now.
- Lecturer in communication engineering department– collage of engineering – Diyala University since 2012 to 2/8/2020.
- Lecturer at high center of general Techniques in Libya since 2002 -2012
- Head of Electrical and Electronic Department at high center of general Techniques in Libya since 2002 -2012.

- Lecturer at high Vocational Center for Computer Techniques in Benghazi-Libya since 1998 – 2012.
- Head Manger and designer of electronic circuits in Diyala General Company for Electrical manufactures in Diyala-Iraq since 1995 -1998.
- Lecturer in Electrical Engineering Department – Collage of Engineering – University of Baghdad since 1984 -1995.
- Designer of power electronics circuits and prepare many experiments for first time in power electronic laboratory / Electrical Engineering Department –Collage of Engineering – University of Baghdad since 1990 – 1995.
- Part of time Lecturer in Electronics and Communication department – Collage of Engineering –Al-Nahrain University since 1990-1991
- Member of Iraqi Engineers Union since 1984 till now
- Member of the Educational Guidance Committee of the College of Engineering – Department of Communication Engineering - University of Diyala for the period 2012-2020.
- Member of the Scientific Committee - College of Engineering - Department of Communication Engineering - University of Diyala for the period 2013-2015.
- Member of the Electronics Site Committee - College of Engineering - Department of Communication Engineering - University of Diyala for the period 2017-2019.
- Member of Quality Assurance and University Performance Committee at the Faculty of Engineering - Department of Communication Engineering - Diyala University since 2013-2014 and 2018-2020.

Training and Courses

- Training course in microprocessor for 2 weeks –University of Baghdad –College of Engineering-Electrical Engineering Department in 1986.
- Training course in computer skills for 3 weeks – university of Diyala – in 2012.
- Training course in Teaching Methods for 1 month – University of Diyala – in 2012.
- Nine training courses in English skills –International House Benghazi /The Success Language Institute – Benghazi, Libya – since 2008 – 2010.

Languages

- English Writing, Reading, Speaking, Listing (Very Good)
- Arabic Mother Tongue

Employment History (Academic & Technical)

Uruk University- College of Technical Engineering

(6/12/2020 till now)

Location: Baghdad – Iraq

Position: Lecturer in medical instrumentation techniques engineering department, and electronic and communication department, and communication engineering techniques department.

Academic degree: Lecturer.

Description: Teaching Mathematics, Electrical workshop for first year, Electronic circuits Devices for second year, Medical communication systems for third year and Microwave for third year.

Diyala University – College of Engineering

(2012 – 2/8/2020)

Location: Diyala – Iraq

Position: Lecturer in communication department

Academic degree: Lecturer.

Description: Teaching Theory of Communications (Theoretical & Practical) and Radar Systems for the Third

stage, Satellite Communications, Cellular Mobile Networks, Global Positioning Systems, TV and Broadcasting Systems and Communication Laboratory for forth stage and digital systems for first stage.

Teaching lectures using online electronic education for the courses on 2019-2020.

High Center of General Techniques

(2002 – 2012)

Location: Benghazi – Libya

Position: Head of Electrical and Electronic Engineering Techniques Department & Member in the Scientific Committee.

Description: Teaching Digital System I for third stage , Digital System II for fourth stage , Analog Electronics for third stage , Programmable Logic Controller (PLC) for fourth stage , Visible Equipment's for fourth stage, Automatic Control Systems for fourth stage , Micro Controllers for fourth stage , Electrical Maintenance for third stage , power Systems for third stage , Induction Machines for third stage , Transformer And Distribution Systems of Electrical Energy for fourth stage , Power Electronics for fourth stage , Transformers Principles for second stage , Maintenance of Transformers for third stage , Protection Systems for fourth stage.

High Vocational Center for Computer Techniques

(1998-2012)

Location: Benghazi – Libya

Position: Member of authority for schooling and training (Lecturer)

Description: Teaching Electrical Circuits for first semester software specialty , signals and systems for second semester hardware specialty , control systems for fourth semester, networks & communication for forth semester, digital systems for fifth semester and Control Tools & Energy Transducer for fifth semester

Diyala General Company for Electrical manufactures

(1995 – 1998)

Location: Diyala – Iraq

Position: Head Manger of Electronics workshop

Description: Designer electronic circuits and supervisor of the maintenance electronic boards of the electronic control machines and programmed logic control machines.

University of Baghdad – Collage of Engineering

(1984 – 1995)

Location: Baghdad – Iraq

Position: Assistance lecturer

Description: Teaching Logic design (theoretical & Practical) for second stage, Principle of Electrical circuit (Theoretical & Practical) for first stage , Electronics and Communication Labs for third and fourth stages, Power Electronics Lab for fourth stage , Alternating Current Machine Lab for third stage , Direct current machine Lab for second stage.

Al-Nahrain University – Collage of Engineering

(1990 – 1991)

Location: Baghdad – Iraq

Position: part of time Lecturer

Description: Electronics and Communication Lab for third stage.

Published Research Papers

No	Title of research	Journal name	Vol. & year Publisher or hosting	ISSN
1	On the 16-PSK Trellis coded Modulation Techniques	Engineering and Technology Magazine	University of Technology – Baghdad –Iraq (1990)	16816900 24120758

2	Performance Investigation of 112 Gb/s Hybrid Multiband CAP/QAM Schemes for Short Reach Optical Communication Systems	Transactions on Networks and Communications	Vol.(4),Issue.(6) (2016).	2054-7420
3	Toward 1.8 Tb/s CAP Schemes for Short Reach Optical Communication Systems	Transactions on Networks and Communications	Vol.(5),Issue.(1) (2017).	2054-7420
4	3Gb/s Broadband Spectral Amplitude Coding-Optical Code Division Multiple Access (SAC-OCDMA) Based on Multii Daognal amd Walsh Hadamard Codes	Journal of Communiications	Vol.(14),Issue.(9) (2019).	1796-2021 (Online); 2374-4367 (Print)
5	Performance Enhancement of Encoding–Decoding Multidiagonal and Walsh Hadamard Codes for Spectral Amplitude Coding-Optical Code Division Multiple Access (SAC-OCDMA) Utilizing Dispersion Compensated Fiber	Journal of Optical Communications	Open Access (2020)	2191-6322
6	Performance Analysis of Inter-satellite Optical Wireless Communication (IsOWC) System with Multiple Transmitters/Receivers	IOP Conference Series: Materials Science and Engineering	Vol. 1076, (2021) pp.1-11	1757-899X
7	Study on Modified Walsh Code for Optical Code Division Multiple Access	Journal of Engineering Science and Technology	Vol.17, No. 5, (2022). pp. 3637- 3659	1823-4690
8	Dual Wavelength Signal Generation with Four Wave Mixing Based on Directly Modulated Laser.	Optical Fiber Technology	Vol. 88, (2024)	

Conferences

No	Conference	Paper title	Proceeding or journal name
1	Third Engineering Conference Iraqi, University of Technology, Nov. 24-26, 1990. Iraq.	On the 16-PSK Trellis coded Modulation Techniques	Engineering and Technology

2	Scientific Conference for Higher Studies Students College of Engineering and Al-kawarizmi College of Engineering / University of Baghdad 27-28 /12/2016	Toward 1.8 Tb/s CAP Schemes for Short Reach Optical Communication Systems	Transactions on Networks and Communications
3	2nd International Scientific Conference of Engineering Sciences (ISCES 2020) College of Engineering/University of Diyala	Performance Analysis of Inter-satellite Optical Wireless Communication (IsOWC) System with Multiple Transmitters/Receivers	IOP Conference Series: Materials Science and Engineering

Published Books

No	Book title and publisher	ISBN
1	"Short-Reach Optical Communication Systems" Carrier-less Amplitude/Phase Modulation (Noor publishing)	978-620-2-34666-5

For more information visit the following links of Social and Scientific media

YuoTube: https://www.youtube.com/channel/UCaFxrJMt7suRO4xiNJ0BLWQ/featured?view_as=subscriber

Google Scholar : <https://scholar.google.com/citations?user=akovkOEAAAAJ&hl=ar>

Acadimeca.edu <https://uodiyala.academia.edu/MajidahMajeed>

Research Gate: https://www.researchgate.net/profile/Majidah_Majeed

<http://www.researcherid.com/rid/N-3982-2017>

Researcher ID : N-3982-2017

Publons : Majidah Mageed <https://publons.com/author/1231109/majidah-majeed#profile>

ORCID: <https://orcid.org/0000-0002-2323-7575>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=58494784000&origin=recordpage#>