Dr. Eng. Imad Ahmed Shaheen

Assistant Professor

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Personal Information

Name	**:** Imad
Surname	**:** Shaheen
Nationality	**:** Palestinian
Date of birth	**:** 16/8/1979
Marital status	**:** Married
Language Skills	**: Arabic** : Mother Tongue
	English: very Good
	indian : Basic
Cellular	**:** 0599856560
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Education

❖ **Ph.D. Electrical Engineering/ Electronic and Communication Engineering, 2014-2018.**

Ain shams university – Faculty of Engineering –Electronic and Electrical Department   –Egypt

❖ **M.E Electrical and Electronic engineering – (Communication Systems and Networks Engineering), 2003-2005.**

Faculty of Electronic, Computer, Electrical Engineering, Mehran university of Engineering and technology – Jamshoro – Pakistan, First division with 3.93 GPA Grade from 4

❖ **B.E Electrical Engineering,1999-2003.**

Department of Electrical Engineering, Faculty of Electronic, computer, Electrical Engineering, Mehran University of engineering and technology –Jamshoro, Pakistan, with 83.5%, First division, 8th position of class

❖ **Diploma in Information Technology,2001-2002.**

Data Link Institute of Information Technology, Hyderabad, Pakistan

❖ **Diploma in Electronic and Control,2003 -2004.**

Data Link Institute of Information Technology, Hyderabad, Pakistan

❖ **Diploma in Electronic Engineering, 2004-2005**

Farkaleet institute of information technology, Hyderabad, Pakistan

❖ **Diploma in Wireless and Wi-Fi Networking, 2004-2005**

Farkaleet institute of information technology, Hyderabad, Pakistan

❖ **Secondary School, 1997-1998.**
    Abu obida Ebn Eljarrah Secondary School (Beit Lahia/ Gaza)

Professional Experience

1- University College of Science and Technology –khanyounis.

 Teacher at University, the courses which I teach:

1. Computer Aided Electronics (OrCAD)
2. Advanced Computer Aided Electronics (VHDL and FPGA)
3. Biomedical Signal Processing
4. Electrical and Electronics Measurements and Instrumentation
5. Sensor and Transducer
6. Medical Image Processing
7. Power Electronics
8. Electrical Materials and Semiconductor Devices
9. Digital Integrated Circuit (Theory and Practical)
10. Analogue Integrated Circuit (Theory and Practical)
11. Embedded system
12. Digital communication
13. Electronic Communication
14. Drawing electrical engineering
15. Bio-Medical sensor engineering
16. Electrical Technology (Theory and Practical)
17. Electronic Circuit (Theory and Practical)
18. Signal and System (Theory and Practical)
19. Communication Engineering (Theory and Practical)
20. Electronic Workshop
21. Electrical Circuit (Theory and Practical)
22. Electronic fundamental
23. Wireless network (Theory and Practical)
24. java programming (Theory and Practical)
25. Communication and information technology
26. Cisco networking
27. Computer maintenance
28. Matlab programming(Theory and Practical)
29. Digital logic design (Theory and Practical)
30. advanced computer network
31. network computer 1(Theory and Practical)
32. network computer 2
33. introduction to computer

2- Lecture at Al-Quds Open University in Gaza (Part Time)

Teaching courses (both theory and practical), the courses which I teach is
1. Introduction to digital and analog communication
2. E-commerce
3. Introductions to computer
4. Networking programming

5. Data communication and transmission
6. Data transmission communication
7. Direct communication systems
8. Management of communication networks and security
9. Electronic circuit
10. Basic Electrical Engineering
11. Advanced computer network
12. Project Research 1and 2
13. Digital communication
14. Electrical Circuit Analysis

3- Al-Aqsa University in Gaza (Part Time)

Lecturer at the College of Applied Science, the courses which I teach in the university is :
1. Communication Technology, Labs is MATLAB Language
2. programming language(1) , Labs is designed by C++ Language
3. Introductions to computer sciences, Labs is MS Office.
4. Data structure , Labs is java and C++ Language
5. Artificial intelligence, Labs is Prolog Language

4-- Al - Azhar University in Gaza (Part Time)

Lecturer at university, Teaching courses (both theory and practical) at Faculty of Computer engineering & Information Technology, The courses which I teach is

1. Electrical and electronic Technology
2. Electronic Communication
3. Signals and Systems
4. Power electronic
5. Electronic 1
6. Advanced electronic engineering

5- University College of Applied Sciences

The courses which I teach:
1. Introduction To Computer
2. Computer network
3. Electrical engineering
4. Programming system

6- Faculty of Intermediate Studies in Al-Azhar University (Part Time)

 The courses which I teach:
5. Introduction To Computer
6. Computer Programming At C
7. Data Base Management
8. Electronic engineering 1
9. Network systems

6- From April 2006 to august 2006 Electricity, networks Engineer at UNRWA in Gaza for a period of 6 months, the unemployment and tasks

1. Setup and expansion of UNRWA computer network.
2. Setup and administration of network services.
3. Setup and administration of UNRWA email system.
4. Setup and configuration of the UNRWA access to the internet.
5. Initiation of the UNRWA Website.
6. Relocating the office LAN to another site
7. LAN Administration
8. Router and switch configuration
9. Electrical technical

7- 2003-2004 Mehran university of Engineering and technology Pakistan

I was Teacher Assistant when I was student for Master Engineering., duties is

1. Helping the professor of the IT faculty with their researches.
2. Teaching some modules for B.Sc. students.
3. Proctoring the exams of the Faculty of IT.

Puplished Paper

A) Journals

[1] Imad A. Shaheen, Abdelhalim Zekry, Fatma Newagy, Reem Ibrahim, "Performance Evaluation of PAPR reduction in FBMC system using Nonlinear Companding Transform", *Elsevier ICT Express, 2018,* *https://doi.org/10.1016* */j.icte.2018.01.017* (Scopus Index, Source Normalized Impact per Paper (SNIP): 1.417)

[2] Imad A. Shaheen, Abdelhalim Zekry, Fatma Newagy, Reem Ibrahim, "PAPR reduction for FBMC/OQAM using hybrid scheme of different Precoding transform and mu-law companding". *International Journal of Engineering & Technology*, Vol. 6, No. 4, pp. 154-162, Nov. 2017. ISSN 2227-524X, *https:// doi: 10.14419/ijet.v6i4.8326* (Scopus Index, Source Normalized Impact per Paper (SNIP): 0.08 , SJR :0.102)

[3] Imad A Shaheen, Abdelhalim Zekry, Fatma Newagy and Reem Ibrahim. "Proposed New Schemes to Reduce PAPR for STBC MIMO FBMC" systems. *Communications on Applied Electronics,* Vol. 6, No. 9, pp. 27-33, April 2017, *https:// doi: 10.5120/cae2017652556*

[4] Imad A. Shaheen, Abdelhalim Zekry, Fatma Newagy, Reem Ibrahim, "Combined DHT Precoding and A-Law Companding for PAPR Reduction in FBMC/OQAM signals" , International Journal of Computing Academic Research (IJCAR) ISSN 2305-9184, Volume 6, Number 2 (April 2017), pp.31-39 , MEACSE Publications - Global Impact Factor (GIF) : 0.45

[5] Imad A. Shaheen, Abdelhalim Zekry, Fatma Newagy, Reem Ibrahim, "PAPR Reduction using Combination of SAS Preprocessed and WHT Precoding for MIMO system of FBMC/OQAM Transceiver", *International Journal of Engineering & Technology*, (Scopus Index, Source Normalized Impact per Paper (SNIP): 0.08)

[6] Comparison of Optical Queue Scheduling Disciplines for Differentiated Services for Optical Networks. CST journal, volume 1 , paper 19

[7] Competitive Performance analysis between Routering Protocol for Real Time application . CST journal, volume 1 , paper 20

B) IEEE Conferences

[1] Imad A. Shaheen, Abdelhalim Zekry, Fatma Newagy, Reem Ibrahim, "Absolute Exponential Companding to Reduced PAPR for FBMC/OQAM," *2017 IEEE Palestinian International Conference on Information and Communication Technology (PICICT)*, Gaza City, 2017, pp. 60-65, *https:// doi: 10.1109/PICICT.2017.17.* (Scopus Index)

[2] Imad A. Shaheen, Abdelhalim Zekry, Fatma Newagy, Reem Ibrahim, "Modified Square Rooting Companding Technique to Reduced PAPR for FBMC/OQAM," *2017 IEEE Palestinian International Conference on Information and Communication Technology (PICICT)*, Gaza City, 2017, pp. 66-70, *https:// doi: 10.1109/PICICT.2017.18.* (Scopus Index)

[3] Imad A. Shaheen, Abdelhalim Zekry, Fatma Newagy, Reem Ibrahim, "PAPR Reduction of FBMC/OQAM Systems Based on Combination of DST Precoding and A-law Nonlinear Companding Technique," *2017 IEEE International Conference on Promising Electronic Technologies (ICPET)*, Deir El-Balah, 2017, pp. 38-42, *https:// doi: 10.1109/ICPET.2017.13* (Scopus Index)

[4] Imad A. Shaheen, Abdelhalim Zekry, Fatma Newagy, Reem Ibrahim, "Modified Alternating Signal (AS) scheme for Reducing PAPR of FBMC/OQAM Signal" , The 13th IEEE International Conference on Computer Engineering and Systems (ICCES 2018), Ain Shams University, Egypt *(Scopus Index)*

C) Under Publication

[1] I. A. Shaheen, A. Zekry, F. Newagy and R. Ibrahim, "Efficient PAPR Reduction for FBMC/OQAM Transceiver using Nonlinear Companding Transforms based on Isosceles Trapezoidal Distribution Transforms" , *IET Communications, http://digital-library.theiet.org/content/journals/iet-com , (Scopus Index, impact factor = 1.443, Source Normalized Impact per Paper (SNIP): 0.759)*

[2] I. A. Shaheen, A. Zekry, F. Newagy and R. Ibrahim, "Capacity of FBMC/OQAM Transceiver System with SRRC Filter and Intrinsic Interference" *International Journal on Electrical Engineering and Informatics , http://www.ijeei.org (Scopus Index, Source Normalized Impact per Paper (SNIP): 0.449   )*

[3] I. A. Shaheen, A. Zekry, F. Newagy and R. Ibrahim, "FPGA Implementation of FBMC/OQAM Transceiver with using SRRC Polyphase Filters*" Wireless Personal Communications , https://link.springer.com/journal/11277 , (Scopus Index, impact factor = 1.20, Source Normalized Impact per Paper (SNIP): 0.803))*

[4] I. A. Shaheen, A. Zekry, F. Newagy and R. Ibrahim, "The Efficient Design of FBMC /OQAM Transceiver with Complexity Analysis using SRRC Polyphase Filter*" international journal of engineering and technology innovation* http://ijeti.imeti.org/index.html *, (Scopus Index, SNIP 2017:* 1.013*)*

[5] I. A. Shaheen, A. Zekry, F. Newagy and R. Ibrahim, "Weibull Companding Scheme for Peak to Average Power Ratio Reduction of FBMC/OQAM systems" *IETE Journal of Research , https://www.tandfonline.com/toc/tijr20/current , (Scopus Index, , impact factor =0.829 , Source Normalized Impact per Paper (SNIP):0.585)*

Research thesis

1- **PhD Thesis**
" Design and Implementation of Advanced Modulation Technique in 5G Communications System "

2- **Master Thesis**
Design of computerized security surveillance system implementing sound localization and face recognition algorithms

3- **B.E Thesis**
Comparative and Analytical approach for a secure wireless local area network using standard techniques

Academic Books studies have been prepared

- ✗ "Communication Technology " which was taught in technology department at , Al-Aqsa University
- ✗ Wireless networking by using opnet simulator
- ✗ "Electronic Communication" which was taught in Faculty of Computer engineering & Information Technology at AL - AZHAR University
- ✗ "Using c++ Programming to solve Mathematical Problem" which was taught in mathematical department at , Al-Aqsa University
- ✗ "Introduction to Computer" which was taught in college of science and technology

- ✗ "Wireless Networking and Communication" " which was taught in college of science and technology
- ✗ Electronic workshop which was taught in University Collage of Science and Technology

Proficiency in Computer

- ☒ Operating Systems : Win XP , Win 7 , Win 8, Linux
- ☒ **Computer Application** : MS Office, , Microsoft Office Visio
- ☒ Software :
- ☒ **Network Simulator :** Excellent experience in NS-2 , Opnet simulator , Packet tracer
- ☒ **Electronic simulator :** Excellent experience PSPICE, Electronic Workbench, OriginPro8, , Proteus Simulator , Orcad Simulator Programming, , LabVIEW 7.1, Circuit Maker , Work Bench
- ☒ **Programming Language :** Excellent experience of C++ , Visual Basic and, Assembly ,java programming
- ☒ **Electrical and Communication Simulator** : excellent experience in ORCAD Package, MATLAB, Advanced Design System (ADS), , MPLAP v7.5, Proteus ISIS and Packet Tracer 5.0 , VHDL Programming , FPGA Language
- ☒ **Hardware :** Parallel & Serial Ports Interface , NI Data Acquisition Card (DAQ) 6024E , DSP Kit , PLC

Teaching Interest

- ☒ Electronic course, digital logic design , communication electronic engineering, network circuit design
- ☒ PIC microcontroller , Electronic software applications , Supervising graduation projects , Electric Circuits Laboratory , Electronics Laboratory

A seminar Attended

- ✗ Conducted a 3-day short course on the Institute of Information Technology, University of Sindh on "Neural Networks for Engineers and Scientists" in April 2003.
- ✗ Conducted a 3-day short course on farkallet Institute of information technology, Hyderabad on "Neurocomputing with Business Applications", in October 2001.
- ✗ Conducted a 3-day short course on "MATLAB Applications" at electrical Training Institute Hyderabad in June 2002.
- ✗ Conducted a short course titled "Understanding of MATLAB towards the solution of physical problems", at Mehran University of Engineering and Technology, Jamshoro from August 27 – 29 and September 3 – 5, 2002

PERSONAL SKILLS:

- ❖ Management of work teams and Leading joint steering committees.
- ❖ Strong Facilitation and communication skills.
- ❖ Very good organized skill & abilities for coordination.
- ❖ Very Good access to deal with computer programs.

❖
G E N E R A L S K I L L S

- ❖ Good Communications Skills
- ❖ ability to work in a team
- ❖ flexible for working in shifts
- ❖ ability to work under pressure
- ❖ Fast Learning
- ❖ Negotiation Skills and Self Motivated.

Awards/Honors

Certificate of distinction from Al-Aqsa University in Gaza
 Excellence in academic performance during the second semester of the academic year 2005/2006, conducted by Service Quality Guarantee in the University

Personal Characteristics

    Learning Quickly, Self Confidence, Working under pressure, Ability of training others, working in team

References

Up to your request