
Hani Ali Mahmoud Harb

Tel. : Egypt (+20-50-2309696- +20-164758974)
KSA (+966532412719)

E-mail: harbbhani@yahoo.com , haniharb0@gmail.com ,
haharb@bu.edu.sa



Personal Data

Address	1 st Qanat El-Suais St., Mansoura, Egypt.
Date of Birth	20 th , October 1976.
Sex	Male.
Marital Status	Married.
Nationality	Egyptian.
Religion	Muslim.
Military Status	Completed.

Educational Record

- August 2009 Faculty of Engineering, Mansoura University.
Ph.D. In Electrical Communication Engineering
Thesis title: "STUDY ON THE ULTRA-LONG- HAUL OPTICAL NETWORKS".
- October 2003 Faculty of Engineering, Mansoura University.
M.Sc. In Electrical Communication Engineering
Master title: "Optical Implementation of code division multiple access communication systems".
- June 1999 Faculty of Engineering, Mansoura University.
B.Sc. of Communications and Electronics Engineering,
Graduation degree: Very Good.
Project title: " Direct sequence spread spectrum and CDMA communication systems."
Project Grade: Excellent.

Certifications

- Siemens Certified Trainer for IT and Optical Communication Technologies, Certified by Siemens, 2005.
- HCNE "Huawei certified Network Engineer" National telecommunication institute (NTI) 2003, Cairo, Egypt.

Experience

- December 2009 until now

Place: Al-Baha University, Al-Baha, Saudi Arabia.

Position: Assistant Professor.

(Head of Computer Science Department 2016-2017.)

(Coordinator of the faculty of computer science and IT from 2016 until now)

-Member of the faculty of computer science and IT Faculty council (coordinator)

Responsibilities:

- Teaching the following courses:

Electronics, fundamentals of electrical circuits, networking,

Data structure, Secure computer systems, Discrete structure,

Database fundamentals, Fundamental of electronics and electricity,

Logic system design and analysis, advanced logic design, control systems,

Digital signal analysis and processing, computer Architecture, VHDL programming language,

Artificial intelligence fundamentals, Embedded control systems, computer network design and managements.

- March 2006 to December 2009

Place: National Telecommunication Institute (NTI).

Position: Technology Training Instructor

Responsibilities:

Teaching of Technology Training courses in the following areas:

- Data Networks Technologies.
- Transport Networks Technologies.
- Wireless Networks Technologies.

- June 2004 to March 2006

Place : Telecom Egypt – Training Sector, Cairo, Egypt.

Position: Technology Training Instructor.

Responsibilities:

Teaching the following transmission technology courses:

Optical fiber, PCM, PDH, and SDH.

- September 2002 to June 2004

Place : Faculty of Engineering, Mansoura University, Mansoura, Egypt.

Position: Researcher Assistant / Instructor.

Responsibilities:

Teaching the following academic courses:

Optical fiber basics, Solid state, Electronic Basics, and Supervising Graduation project in Optical Communication.

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- October 2000 to June 2002
Place : Egypt Air Defense, Egyptian Army, Egypt.

Position: officer.

Responsibilities:

Working as an officer in Egypt Air Defense systems.

Courses

* Siemens professional training courses in:

"PCM 30 Basics", "PDH Basics", "SDH Basics", "DWDM Basics", "Optical Transmission Hierarchy OTH", "Introduction To Data Networks", "Understanding TCP/IP", "TCP/IP Advanced", "Technology and application of Frame Relay", "Technology and application of ATM", "IP Multiservice Networks", "IP and Qos: Intserv, Diffserv, MPLS", "Digital Telephony", "ISDN Technology Overview", "Technology and Application of xDSL", "CCS-7 Protocol Overview", "GSM Introduction".

*ITU professional training course in:

IP Phone

Professional training through Siemens Training Institute in the following courses:

- " VoIP " July, 2005.
- "WLAN "July, 2005.
- "DWDM" Aug. 2005.

Published Papers

- [1] "A New Coded Optical Code Division Multiple Access (OCMA) Systems" In the 20th National Radio Science Conference, March 18-20, 2003, Cairo, Egypt.
- [2] " Novel Architecture for FFH OCMA Using Ion Exchange Diffraction Grating and Delay Lines " **IEEE** Mediterranean Microwave Symposium Ain-Shams, May 6-8, 2003, Egypt.
- [3] "Estimated Maximum Spectral Efficiency and Timing Jitter of $(100 \times 10 \text{Gb/s}) \equiv 1 \text{Tb/s}$ DWDM Transmission System." Proc. 25th National Radio Science Conference (NRSC 2008), March 18-20, 2008, Faculty of Engineering, Tanta Univ., Egypt.
- [4] "New Codes for Forward Error Correction (FEC) in WDM Transmission System." Proc. 25th National Radio Science Conference (NRSC 2008), March 18-20, 2008, Faculty of Engineering, Tanta Univ., Egypt.
- [5] "Analysis of Wide Band, Flat Gain Raman Amplifier with Forward Pumping for DWDM Communication Networks." The Mediterranean Journal of Computers and Networks, Vol. 5, No. 2, 2009, pp.42-47, United Kingdom.

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- [6] "Wide Band Flat Gain Raman Amplifier for DWDM Communication Systems." The Sixth International Conference on Wireless and Optical Communications Networks (WOCN2009) April 28- 30, 2009, Cairo, Egypt.
- [7] "Multi-layer Fiber for Dispersion Compensating and Wide Band Amplification." Ubiquitous Computing and Communication Journal, Vol.4, No. 3, August, 2009, South Korea.
- [8] "A Study on The Effective Design for DWDM Long-haul Transmission System" The Mediterranean Journal of Computers and Networks, Vol. 6, No. 1, 2010, pp.31-37, United Kingdom.
- [9] "STUDY ON THE EFFECT OF THE BURST LENGTH IN OPTICAL BURST SWITCHING CORE NODE" The Mediterranean Journal of Computers and Networks, Vol. 10, No. 4, 2014, pp.327-331, United Kingdom.
- [10] " A Study of the Number of Wavelengths Impact in the Optical Burst Switching Core Node" Proc. EECSI 2017, Yogyakarta, Indonesia, 19-21 September 2017.
- [11] " An Extended Review on Internet of Things (IoT) and its Promising Applications" Communications on Applied Electronics, Foundation of Computer Science (FCS), NY, USA, 2019, Volume 7, Number 26
DOI: 10.5120/cae2019652812.
- [12] "The Future of Internet of Things (IoT) and Its Empowering Technology" International Journal of Engineering Science and Computing (IJESC), ISSN: 2321- 3361, Volume 9, Issue No.3, Pages 20192– 20203, March 2019.
- [13] "Performance Evaluation of OBS WDM Core Node using Queuing Theory" to be published in International Journal for Light and Electron Optics, 2021.

Language Proficiency

- Mother tongue Arabic.
- English American University in Cairo (AUC) English level (304) with Grad A "Excellent".
- TOEFL (584 paper based exam).

Skills

- I strongly believe that my academic background in Electronics, and Communications, academic degree and my experience will be an assist to your team.
- Ability to understand any software package or hardware equipment.
- Analytical, creative, ambitious and self-motivated.
- Good communication skills and ability to interact effectively among a team.
- Hard worker.
- I always improve myself by reading and new certificates.
- Good presentation skills.

Objective

Seeking a challenging position in a leading University where my knowledge and skills employed and developed. So, I am interested in becoming a member of your successful team, and joining your esteemed organization.
