

RESUME/ CURRICULUM VITAE

Name: **Hani Ali Mahmoud Harb**

E-mail: harbbhani@yahoo.com , hanyali@nti.gov.eg

Address: 1st Qanat El-Suais St., Mansoura, Egypt/ Imam Mohamed bin saud str. Albaha, KSA.

Phone contacts: Egypt (+20-50-2309696- +20-164758974)
KSA (+966532412719)

Email address: harbbhani@yahoo.com , hanyali@nti.gov.eg , haharb@bu.edu.sa

(Link to staff profile homepage – including Skype address, LinkedIn)

Nationality: Egyptian

CAREER PROFILE/SUMMARY

Inquisitive optical communications and Networks specialist with 15+ years of professional work experience. I strongly believe that my academic background in Electronics, and Communications, academic degree and my experience will be an assist our faculty team. Also have :

- - Good communication skills and ability to interact effectively among a team.
- - Analytical, creative, ambitious and self-motivated
- - Hard worker.
- - I always improve myself by reading and new certificates.
- - Good presentation skills.

EDUCATION/ACADEMIC QUALIFICATIONS

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

Professional training:

* 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

*Training or Studying in Foreign Countries:

- Country: Germany (Munich).
Professional training through Siemens Training Institute in the following courses:
 - “ VoIP “ July, 2005.
 - “WLAN “July, 2005.
 - "DWDM" Aug. 2005.

*American University in Cairo (AUC) English level (304) with Grad A "Excellent".

*TOEFL (584 paper based exam).

EMPLOYMENT HISTORY

- December 2009 until now

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

Position: Assistant Professor

Responsibilities:

- Teaching the following courses:

Electronics, fundamentals of electrical circuits, networking,
Data structure, Secure computer systems, Discrete structure,
Data base fundamentals, Fundamental of electronics and electricity,
Logic system design and analysis,

- 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.

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

Position: officer.

Responsibilities:

Working as an officer in Egypt Air Defense systems.

PUBLICATIONS

Publications

- [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.
- [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" Journal of Communications on Applied Electronics (CAE) – ISSN: 2394-4714, Volume 7– No. 26, February 2019.

PRESENTATIONS

- **Alternative headings: INVITED LECTURES/SEMINARS**
- Faculty of computer science and IT weekly Seminar “optical Amplifiers”.11 Feb 2019
- Faculty of computer science and IT weekly Seminar “optical Amplifiers”. 11 Feb 2018
- The 20th National Radio Science Conference, March 18-20, 2003, Cairo, Egypt.
- IEEE Mediterranean Microwave Symposium Ain-Shams, May 6-8, 2003, Egypt.
- 25th National Radio Science Conference (NRSC 2008), March 18-20, 2008, Faculty of Engineering, Tanta Univ., Egypt.
- The Sixth International Conference on Wireless and Optical Communications Networks (WOCN2009) April 28-30, 2009, Cairo, Egypt.
- EECSI 2017, Yogyakarta, Indonesia, 19-21 September 2017.

TEACHING EXPERIENCE

Teaching Responsibilities:

Electronics, fundamentals of electrical circuits,
networking, Data structure, Secure computer systems, Discrete structure,
Data base fundamentals, Fundamental of electronics and electricity,
Logic system design and analysis,

"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".

Teaching of Technology Training courses in the following areas:

- Data Networks Technologies.
- Transport Networks Technologies.
- Wireless Networks Technologies.
Optical fiber, PCM, PDH, and SDH.

COMMITTEES

- Student Affairs committee 2019.
- Faculty council member 2015-2018.
- Academic affairs committee 2010-2018 (faculty of science and faculty of CS & IT.)
- Albaha University study plans and time tables committee (2014-2018).
-etc.

AWARDS

- 2016, best innovation project, from Albaha university , student research conference.

SERVICE/OTHER RELEVANT EXPERIENCE/PROJECTS

- National Telecommunication Institute (NTI) (Training Instructor).
- Telecom Egypt – Training Sector, Cairo, Egypt (Training Instructor)
- Faculty of Engineering, Mansoura University, Mansoura, Egypt.(
Supervising Graduation project in Optical Communication)
- Egypt Air Defense, Egyptian Army, Egypt (Egypt Air Defense systems).

PROFESSIONAL DEVELOPMENT

- UDC, Mansoura University, "Strategic Planning" 2008.
- UDC, Mansoura University, " Ethics of Scientific Research " 2008.
- UDC, Mansoura University, " Effective Presentation" 2008.
- UDC, Mansoura University, faculty of Science, "University Teacher Preparation"2008

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- **IEEE Membership 2006-2012 optical communication society**

REFERENCES

- 1- *Prof. Dr. Ahmed Shabaan. Faculty of Engineering, Mansoura University, Egypt.*
shmed@mans.edu.eg, +2124053523, +2502330390
- 2- *Prof. Dr. Hossam Shalaby Faculty of Engineering, Alexandria University, Egypt.*
hossam.shalaby@alexu.edu.eg, shalaby@ieee.org, +235755819, +2124728511