

Eman Siraj El-Din Bakr

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Personal Details

- ✓ **Date of Birth :** June, 24, 1980
- ✓ **Nationality:** Egyptian
- ✓ **Marital Status:** Married
- ✓ **Car License :** Valid
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Objective: *Seeking a challenging position in a leading organization where by my previous experience, talent and creativity can be best utilized and where my capabilities can be further developed, enhanced and deployed.*

Educational Information

- ***PHD Degree in Electronics and Communication Engineering, (2013 Faculty of Engineering, Faculty of Engineering, Ain Shams University).***
 - ✓ ***PHD. Thesis: “Performance Assessment for Traffic Management Techniques Used in Wireless Networks”***
- ***M.Sc. Degree in Electronics and Communication Engineering, (2006, Faculty of Engineering, Arab Academy for Science, Technology and Maritime Transport).***
 - ✓ ***M.Sc. Thesis: “Impact Of Transmission Control Protocol Window Size On The Network Performance”***
- ***B.Sc. Degree in Electronics and Communications Engineering, (2002, Faculty of Engineering and Technology, Helwan University).***

Work Experience

1- Ministry of Communication and Information Technology (MCIT), National Telecommunication Institute, (NTI): (Nov 2002 – till present)

- Tele-communication Doctor Engineer in Networks Planning Department. (*NPD*).
- Auditing Group Leader in “*BTS Mobile Health and Safety Project*” for the measurement & evaluation of the mobile base station of Egypt Mobile Operators (EMO) such as (Mobinil, Vodafone-Egypt ,Etisalat -Misr and Telecom -Egypt) with cooperation of National telecom regularity authority (NTRA).
- Acts as a Consultant for Egypt Mobile Operators (EMO) such as (Mobinil, Vodafone-Egypt, Etisalat -Misr and Telecom -Egypt). We prepared a complete report and standardization for the safety measures for both the Macro & Micro mobile base stations, which are being used in Egypt.
- Member of “*NTI Technical Office*” for tender inspection and offer qualifications. Both of technical approval and logistics consultations.
- Involved in network courses for *Post Graduated Diploma* for engineers.
- Instructor in MCIT professional Tanning Program in Advanced Wireless Communication Track.
- Supervising on Project for students in MCIT professional Tanning Program in Advanced Wireless Communication Track.
- Instructor for *LAN, WLAN, GSM, BTS Mobile Safety, CDMA, and LTE* courses in Postgraduate courses and WiMAX Instructor in network planning department.
- Instructor for *CCNA CISCO Certified Academy* courses.
- Instructor for *WIRELESS LAN CISCO Certified Academy* courses

- Supervised on network Labs (both of data and telephone) and illustration for NTI training programs for both of national engineers, and international engineers in cooperation with international agencies such as the Japan International Cooperation Agency (*JICA*), International Telecommunication Union (*ITU*).

2- Canadian international collage CIC, New Cairo, Faculty of Engineer As part time (March. 2014-Untill now).

- ***Assistant professor in Electronics and Communications Department. Teaching courses***
 - ✓ *Data Communication Networks.*
 - ✓ *Local Area Network.*
 - ✓ *Applied Wireless Networks.*
 - ✓ *Mobile Communication.*
 - ✓ *Satellite Communication.*
 - ✓ *Communication Systems.*
 - ✓ *Electric Communication Circuits.*
 - ✓ *Digital Communication Systems.*
 - ✓ *Signals Analysis.*
- ***Supervising Graduation Project for Senior Communication Engineering Students.***
 - ✓ *Admission Control in LTE Network.*
 - ✓ *5th Generation Mobile Communication Networks.*
 - ✓ *Cognitive Radio Enabling Opportunistic Spectrum Access in LTE-Advanced*
 - ✓ *Simulation Based Performance Analysis on Different Routing Techniques Implemented on Different Routed Protocol Using OPNET.*
 - ✓ *4G NETWORK PLANNING.*
 - ✓ *4G NETWORK OPTIMIZATION.*
 - ✓ *3G WIFI Offloading Techniques.*
 - ✓ *Radio Directional Finder system.*
 - ✓ *Cognitive radio system*
- ***Cooperative Supervision Graduation Project for senior mechanical department and communication department Engineering Students.***

- ✓ *Design of Smart Recycle System Using Wireless Technology.*
- ✓ *Smart brain wheel chair by using mind wave technology.*
- ***Team member of NARS quality unit files of Electrical Engineering in College of Engineering in CIC.***

3- Modern Sciences and Arts University MSA, 6 Th October, Faculty of Engineer (2016).

- ✓ *Supervising Graduation Project for Senior Communication Engineering Students*

4- October Higher Institute for Architecture Engineering OHI, 6 Th October, Faculty of Engineer (AS part time)

- ***Working as an assistant professor in Electrical Engineering Department. Teaching courses (part time):***

- ✓ *Communication Systems Course.*
- ✓ *Signals Analysis*
- ✓ *Field training course for senior engineer "Cisco CCENT material".*

Research projects

Member in applied research project funded by the National Telecommunication Regulatory Authority (NTRA), Ministry of Communications, Egypt.

- **Project Title:** Integrating 3G/4G and Wi-Fi Architectures for Diverse Offloading Capabilities.
- **Academic Partners:** Helwan University, Faculty of Engineering, Department of Electronics, Communications and Computers Engineering.
- **Industrial Partner:** Etisalat Misr Mobile Operator.
- **Project Duration:** Two years project (Start date: 01/11/2017, End date: 30/10/2019)

Publications Research

- 1-** Eman S. E l-Din and Ibraheem M. Fayed „*Implementating New LTE GUI Dimensioning Tool* “*Journal of Communication and Computer, USA (ISSN 1548-7709). April, 2017.*
- 2-** Eman S. E l-Din and Ibraheem M. Fayed “*Performance Enhancement of MTC in LTE Networks by Maximizing Random Access Procedure Throughput*” , accepted to published in *The Ninth International Conference on Evolving Internet , INTERNET2017 July 23, 2017 - July 27, 2017 ,Nice, France.*
- 3-** Eman Serag, “*Estimation of Coverage and Capacity Dimension for 4G system Outdoor Macro Sites* ” *International Conference on Applied Mathematics and Computer Science, Rome, Italy, January 27-29, 2017.*
- 4-** Tamer A. Moniem, Eman S. El-Din“*Design of integrated all optical digital to analog converter (DAC) using 2D photonic crystals*” *El-Sever Optics Communications journal homepage: www.elsevier.com/locate/optcom. <http://dx.doi.org/10.1016/j.optcom.2017.05.028>.*
- 5-** Mahmoud Hanafy Saleh, Eman S.Bakr, *A real Time Wireless Tracking and Control for A Secured Vehicle Systems*" *International Conference on Mathematical Analysis and its Applications (ICMAA-2017) March 5-9-2017, India.*
- 6-** Eman Serag Eldin”*Radio directional finder supported by robotics system* " *in First CIC International Conference / 2017" for Business, Engineering and Mass-comm. Schools. May 2017.*
- 7-** Eman S.El-Din, Hesham M.El- Badawy,Salwa H. El-ramly “*Merging link level availability based on faded and noisy channel characterization,*” in *Journal of Engineering Sciences , Faculty of Engineering , Assuit university , Egypt ,Vol 40, No2, PP 491-502, March 2012.*
- 8-** Eman S.El-Din, Hesham M.El- Badawy, Salwa H. El-ramly “*Assessment of Channel Unavailability Effect on The Wireless Networks Teletraffic Modeling and Analysis,*” *International Conference on Electrical, Computer, Electronics, Communication Engineering (ICECECE\12) September 26-27, 2012 ,Rome, Italy.*

9- Eman S.Bakr, Mohsen M.Tantawy, Bahnasy M. Nosier, Mohamed Walied Fakhr, *“Impact of Network Buffers on TCP Smart Framing Start-Up,”* Al Azhar University Engineering Journal, Vol.9, No.2, April, 2006.

Technical Training

- *Faculty of Engineer – Cairo University Workshop on “Cognitive Radio”* Cairo - Egypt, April 2015.
- *Faculty and Leadership Development Center – Cairo University Workshop on “STARTEGIC PLANNING”* Cairo - Egypt, 5 -9 January 2014.
- *ITU (international telecommunication union) Arab Regional Workshop on “Connectivity in Rural Areas”* Cairo - Egypt, 20 -22 November 2012
- *ITU (international telecommunication union) Arab Regional Workshop on “4G Wireless Systems- LTE Technology”* Hammamat, Tunisia 2010.
- *CCNA Security-- instructor course, (Cisco) June 2009.*
- *Cisco Fundamentals of Wireless LAN Support Specialist– Instructor Certificate, November 2008.*
- *Fundamentals of Wireless LANs, - instructor course, from Cisco Academy in Egypt November 2008.*
- *Network Planning Course, ITU (international telecommunication union), Cairo, Egypt, July, 15, 2006, to, July, 27, 2006.*
- *CCIA “CCNA CISCO Certified Academy Instructor”* Cisco Academy in Egypt.2005.
- *Course Cisco Certified Network Professional (CCNP), (Cisco) Aug 2002.*
- *Course Cisco Certification Network Association (CCNA), (Cisco) July 2002.*
- *Trainee at Egyptian Radio & Television- July 2000.*
- *Trainee at Telecom Egypt Maadi Satellite Communication Center- July 1999.*

Soft Skills

- ✓ Dynamic, Hard worker, flexible & willing to learn.
- ✓ Self-motivated, Teamwork oriented problem solving ability.
- ✓ Excellent interpersonal and communication skills.
- ✓ Ability to manage multiple tasks in a pressured environment with proven leadership skills.

Hobbies

- ✓ Travel, Bowling, and Music

References

Dr. Hesham A. Elbadawy	Head of Network Planning Department National Telecommunication Institute Ministry of Communication and Information Technology	5, Mahmoud El Miligui St.6th district, Nasr City, Cairo.
Dr. Mahmoud Elmesalawy	Associate Professor Electronics, Communications and Computers Department Faculty of Engineering, Helwan University Director, Wireless Research Lab. (WRL) at Faculty of Engineering - Helwan University Master in Educational Planning and Management, IIEP, Paris, France Director, Strategic Planning Unit (SPU) - Helwan University	Helwan University, Faculty of Engineering, Helwan, Cairo, Egypt.
Dr. Mohsen M. Tantawy	Network Planning Department National Telecommunication Institute Ministry of Communication and Information Technology	5, Mahmoud El Miligui St.6th district, Nasr City, Cairo.
Dr. Salwa El Ramly	Ain Shams University, Faculty of Engineering. Electronics and Communication Engineering Department	Ain Shams University, Faculty of Engineering, Abasiya, Cairo, Egypt.