



## Dr. Eng. Samer Bali

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- Personal Information**
- Birthday: 03.06.1976
  - Nationality: Jordanian.
  - Marital Status: Married.
  - Miscellaneous: Permanent Residence Permit in Germany.
- Education**
- **Ph.D. in Electrical Engineering** with evaluation of **Very Good** from the Institute of Communications Technology at Leibniz University of Hanover, Hanover, September 2008.  
**Dissertation Title:** “Routing Protocols for Ultra Wide Band Mobile Ad Hoc Networks”
  - **M.Sc. in Electrical Engineering / Communications** with evaluation of **Very Good** with GPA of **3.62 (90.5%)** from the Faculty of Engineering & Technology at University of Jordan, Amman, September 2001.
  - **B.Sc. in Electronic Engineering** with major average of **92.5%** and evaluation of **excellent** with distinction from the Department of Electronic Engineering at Al-Quds University, Abu-Dies, Jerusalem, August 1998.
  - **General Secondary Education Certificate Examination (Tawjeehi)**, Scientific Stream, with an average of **96.5%** from Arabic Institute School, Abu-Dies, Jerusalem, July 1994.
- Work Experience**
- **Academic staff member / Assistant Professor** in the Department of Electrical Engineering / College of Engineering at University of Business and Technology (UBT), Dahban, Jeddah, Assistant professor for supervision of undergraduate theses, projects, courses and labs in electronics and communications, October 2015 – May 2020.
  - **Academic staff member / Assistant Professor** in the Department of Electronic Engineering / Faculty of Engineering at Al-Quds University, Abu Dies, Jerusalem, Assistant professor for supervision of graduate and undergraduate theses, projects, courses and labs in electronics and communications, October 2008 - August 2015.
  - **Academic staff member / Assistant Professor** in the Department of Electrical Engineering / Faculty of Engineering at Birzeit University, Birzeit, Ramallah, Visiting professor for supervision of undergraduate projects, courses and labs, February 2014 - July 2014.
  - **Head of the Department** of Electronic Engineering at Al-Quds University, Abu Dies, Jerusalem, September 2011 - August 2013.
  - **Academic staff member / Lecturer** in the Department of Electronic Engineering / Faculty of Engineering at Al-Quds University, Abu Dies, Jerusalem, Teacher and Supervisor for undergraduate projects, courses and labs in electronics and communications, April 2003 - September 2004.
  - **Research and Teaching Assistant** in Electronic Engineering Department at Al-Quds University, Abu Dies, Jerusalem, Assistant and Supervisor for electronics and communications labs, September 1998 - September 1999.

- Projects & Research Activities**
- **Project Leader and Primary Investigator**, “**Novel Passive Radio Frequency Identification System**,” Research Project funded by Research & Consultation Center at University of Business and Technology (UBT), January 2017 - December 2017.
  - **Startup Company Founder and Team Leader**, “**Wireless Identification Solutions**,” Taqadam University Entrepreneur Accelerator funded by the Saudi British Bank (SABB) and managed by Entrepreneurship Center at King Abdullah University of science and Technology (KAUST), December 2016 - May 2017.
  - **Project Coordinator**, “**Inter-Culture Dialogue with Palestine through Exchange and Academic Cooperation**,” Research project between Faculty of Engineering at Al-Quds University and The Institute of Digital Signal Processing (DSV) at Duisburg-Essen University, Funded by the German Academic Exchange Service (DAAD), January 2014 - December 2014.
  - **Guest Professor** in Institute of Digital Signal Processing (DSV) at Duisburg-Essen University, Preparing for a new research project in the area of RFID system, Funded by the German Academic Exchange Service (DAAD), June - August 2013.
  - **Scientific staff member/PhD Candidate** in Institute of Communications Technology at Leibniz University of Hanover, Hanover, Researcher for routing protocols in UWB ad hoc networks and Supervisor for traffic theory lab, Funded by the German Academic Exchange Service (DAAD), April 2005 - September 2008.

- Qualifications, Honors, & Awards**
- **Member of Quality Committee** of Electrical Engineering department at UBT, responsible for NCAAA accreditation and specialized in KPIs and Course Specification, and PLOs and CLOs assessment, January 2019 – until now.
  - **Best Poster Award**, research project with title “Novel Passive Radio Frequency Identification System,” Poster Session, 1<sup>st</sup> Research Symposium 2016, University of Business and Technology, Jeddah, 30 March, 2016.
  - **Scholarship of DAAD**, visiting professorship to Institute of Digital Signal Processing (DSV) at Duisburg-Essen University, June - August 2013.
  - **IEEE Sarnoff Symposium Second Place Award** for the Best PhD Student Paper/Poster with title "Routing Protocols for Ultra-Wideband Mobile Ad Hoc Networks," Princeton, April 30, 2008.
  - **Scholarship of DAAD** to pursue the Doctorate Degree in Electrical Engineering / Communications Networks at Leibniz University of Hanover, Hanover, October 2004 - September 2008.
  - German language certificate **TESTDaf**, score of **TDN: 4, 4, 3 ,3** (first trial), March 2005.
  - English language certificate **TOEFL**, score of **563** (first trial), July 2003.
  - **Scholarship of DAAD** to pursue the Master Degree in Electrical Engineering / Communications at University of Jordan, Amman, October 1999 - September 2001.
  - **Scholarship of the Arabic Institute School** to study at Al-Quds University for the Bachelor Degree in Electronic Engineering, October 1994 - August 1998.
  - **Honor certificate** of the best graduate project & highest mark (**96%**), Department of Electronic Engineering at Al-Quds University, June 1998.
  - **Deans Honor list** in all the mandatory semesters (eight semesters) at Al-

Quds University.

- **FIRST Rank** in Tawjeehi in the Arabic Institute School with an average of **96.5%**, July 1994.

#### **Publications**

- Samer Bali, Mahran N. Jazi, Bashar M. Husain, Marc Hoffmann, and Thomas Kaiser, "**Development of a Configurable and Enhanced RFID Reader Testbed Based on EPC Generation-2 Standard**," Open Science Journal of Electrical and Electronic Engineering, Vol. 2, No. 5, pp. 84-92, October 2015.
- Mahmoud S, Obaid and Samer Bali, "**Study of Factors Affecting Handoff Process in WiMAX Network**", International Journal of Engineering Research & Technology (IJERT), Vol. 3 Issue 4, pp. 86-89, April 2014.
- Abdelaziz Khalil, Nasim Hamaydeh, Labib Arafeh and Samer Bali, "**Tradeoff Analysis for Vertical Handover Between UMTS-WiFi Enhanced by IEEE802.21**," IEEE International RF and Microwave Conference 2013, Malaysia, December 09-11, 2013.
- Nasim Hamaydeh, Abdelaziz Khalil, Samer Bali and Labib Arafeh, " **The Impact of Mobile Speed on Vertical Handover Process Between WiFi and WiMAX Networks**," IEEE International RF and Microwave Conference 2013, Malaysia, December 09-11, 2013.
- Mohammad Azouqa, Samer Bali, and Ali Jamoos, "**Investigation Of Vehicle-to-Vehicle Communication in a Road Intersection**," the Seventh Jordanian International Electrical and Electronics Engineering Conference (JIEEEEC 2011), Symposium on Communications Engineering, Amman, April 12 - 14, 2011.
- Samer Bali, "**Routing Protocols for Ultra-Wideband Mobile Ad Hoc Networks**", LAP LAMBERT Academic Publishing, March 2011.
- Samer Bali, Jan Steuer and Klaus Jobmann, "**Capacity of Ad Hoc Networks with Line Topology Based on UWB and WLAN Technologies**," Wireless Telecommunications Symposium (WTS) 2008, April 24 - 26, 2008.
- Samer Bali and Klaus Jobmann, "**Routing Protocols for Ultra-Wideband Mobile Ad-Hoc Networks**," in student paper/poster proceedings, IEEE Sarnoff Symposium 2008, April 28-30, 2008.
- Samer Bali, Jan Steuer and Klaus Jobmann, "**Performance of Three Routing Protocols in UWB Ad Hoc Network Deployed in an Industrial Application**," GLOBECOM'07: IEEE Workshop on Wireless Mesh and Sensor Networks, Nov 30, 2007.
- Samer Bali, "**Routing Protocols for Ultra-Wideband Mobile Ad Hoc Networks**," PhD Dissertation at Leibniz University of Hanover, Hanover, April 2005 - September 2008.
- Samer Bali, "**Study of the Throughput of General Packet Radio Service (GPRS) for Internet Applications**," Master Thesis, University of Jordan, Amman, Oct 2000 - Aug 2001.

#### **Participation in Conferences and Workshops**

- **Workshop (Training Program):** Thinking Based Learning, *Participant*, University of Business and Technology, Jeddah, KSA, September 5-6, 2018
- **Workshop (Training Program):** Effective Student Assessment, *Participant*, Continuing Education Center, University of business and Technology, Jeddah, KSA, April 9-12, 2018
- **Workshop (Training Program):** Teaching for the Development of

Creative Thinking, **Participant**, King Abdulaziz University, Jeddah, KSA, December 5-6, 2016

**Participation  
in Conferences  
and  
Workshops**

- **Symposium:** 1<sup>st</sup> Research Symposium 2016, **Author**, University of Business and Technology, Jeddah, KSA, 30 March, 2016.
- **Workshop:** H2020 ICT Awareness and Training Event, **Representative of Al-Quds University**, Ramallah, Palestine, May 20-21, 2014.
- **Workshop:** DAAD Alumni Workshop, **Lecturer**, Al-Quds University, Abu Dies, October 21, 2013.
- **Workshop:** Engineering Graduation Projects, **Representative of Al-Quds University**, Birzeit University, Birzeit, Palestine, January 31, 2012.
- **Conference:** The Seventh Jordanian International Electrical and Electronics Engineering Conference (JIEEEEC), **Author**, Amman, Jordan, April 12 - 14, 2011.
- **Workshop:** Practical Training for Students of Engineering, **Representative of Al-Quds University**, Birzeit University, Palestine, January 18, 2011.
- **Workshop:** Developing Methods for Co-Design with FPGA, **Trainee**, An-Najah National University, Nablus, Palestine, January 10 - 13, 2010.
- **Conference:** IEEE Sarnoff Symposium, **Author**, Princeton University, Princeton, New Jersey, USA, April 28-30, 2008.
- **Conference:** Wireless Telecommunications Symposium (WTS), **Author**, California State Polytechnic University, Pomona, California, USA, April 24 - 26, 2008.
- **Conference:** GLOBECOM'07: IEEE Workshop on Wireless Mesh and Sensor Networks, **Author**, Washington DC, USA, November 30, 2007.

**Supervision of  
Courses**

- Microprocessor Fundamentals
- Digital Logic.
- Computer Organization.
- Computer Networks.
- Selected Topics: "Mobile Ad Hoc Networks "
- Communications I (Analog Communications).
- Communications II (Digital Communications)
- Communication Systems (satellite, microwave, antennas, telephony & Tv)
- Advanced Wireless Communications
- Selected Topics: "Information Theory and Coding"
- Optoelectronics and Optical Fibers
- Electrical Circuit Analysis
- Electronics I and Electronics II
- Probabilities and Random Variables
- Linear Network Analysis
- Signals and Systems
- Principles of Communication Systems (Analog and Digital)
- Communication Systems (Analog and Digital)
- Probability and Engineering Statistics
- Antennas and Wave Propagation.

**Supervision  
of Labs**

- Signals and Systems Lab (using MATLAB).
- Electrical Circuits Analysis Lab.
- Electronics Measurement Lab.
- Digital Logic Systems Lab.
- Electronics I Lab.

- Electronics II Lab.
- Electronics III Lab.
- Digital Logic Systems Lab.
- Electronics Workshop I.
- Electronics Workshop II.
- Microprocessor Fundamentals Laboratory.
- Communications Systems Lab.

**Courses that can be supervised**

- Mobile and Wireless Communications.
- Several Communication Systems (Microwave, Satellite, TV, Telephony).
- Data Transmission.
- Digital Logic.
- Computer Structure and Assembly Language.
- Computer Networks.
- Digital Signal Processing.

**Supervision of Master Theses**

- **Master Thesis**, "Development of A Software-Defined Radio Testbed for RFID Generation-2 Reader," Thesis was defended on 17.05.2015, Student: Mohran Jazi.
- **Master Thesis**, "The Effect of a Mobile Node Speed in Vertical Handover between WiFi and WiMAX Networks," Thesis was defended on 27.04.2014, Student: Nasim Hamaydeh.
- **Master Thesis**, "Performance Study of the Effective Factors in Vertical Handover between UMTS and WiFi Enhanced by IEEE802.21," Thesis was defended on 21.01.2014, Student: Abedelaziz Khalil.
- **Master Thesis**, "Study of Factors Affecting Handoff Process in WiMAX Network," Thesis was defended on 26.05.2013, Student: Mahmoud Obaid.
- **Master Thesis**, "Vehicular Ad Hoc Networks Routing Protocols: Comparative Simulation Study In City Scenario," Thesis was defended on 17.08.2010, Student: Mohammad Azouqa.

**Supervision of Undergraduate Projects**

- **Senior Project**, "Prepaid RFID Electricity Meter," Spring 14/15 Semester, Students: Mohamed Imran, Mohamed Leqyanya, and Mohamed Shaabneh.
- **Senior Project**, "Car Ventilation System via GSM Technique," Spring 13/14 Semester, Students: Mais Kurdy.
- **Senior Project**, "Medicine Organizer," Spring 13/14 Semester, Students: Mohammad Shihadeh and Muntaser Dmaidi.
- **Senior Project**, "Students Absence & Presence Check System," Fall 13/14 Semester, Students: Mohammad Altel, Mohammad Rizeq, & Nasr Taha.
- **Senior Project**, "Intelligent Car," Spring 12/13 Semester, Students: Mohammad Darawsheh, and Ahmad Meqdad.
- **Senior Project**, "Wireless Scanner," Fall 12/13 Semester, Students: Kholoud Salawdeh, Ahmad Daoud, and Mohammad Abu Allawi.
- **Senior Project**, "Wireless Intercom System," Spring 11/12 Semester, Student: Razan Abu Saif.
- **Senior Project**: "Wireless Electro-Communicational Meter," Fall 11/12 Semester, Students: Shorouq Romah and Remah Hammad.
- **Senior Project**, "Vehicles GSM Alarm System," Spring 10/11 Semester, Students: Ali Mansour and Yazan El-Bzour.
- **Senior Project**, "Intelligent Filling and Weighing System Controller," Spring 10/11 Semester, Students: Omar Abu Hasan and Khaled Sajdeyyeh.

- **Senior Project**, "Wireless GSM Telemetry," Spring 09/10 Semester, Students: Wardeh Wahdan, Nagham Al-Shehabi, and Marwan A'qel. This project was qualified to the final stage of the competition "Made in Palestine 2010" and it was presented under the title "Intelligent Electrical Meter" in the competition exhibition held in Ramallah between 23 and 25 November 2010.
  - **Senior Project**, "Programmable Announcement Panel System," Fall 09/10 Semester, Students: Mohamed E'wais, Taisyeer Salim, and Feda' Shaheen.
- Computer Skills & Miscellaneous**
- Excellent Knowledge in Microsoft Windows and its applications.
  - Excellent Knowledge in Linux System and its applications.
  - Expert in PCs (maintenance, hardware accessories, software, etc).
  - Programming in C, Tcl/Tk and others.
  - Excellent Knowledge in NS-2 (Software for communication networks simulation), AutoCAD (Engineering Drawing Program), and MATLAB.
  - Excellent knowledge in wireless communication systems, new technologies, protocols and standards (e.g. WLAN, UWB, MAC and IEEE standards), basic knowledge in UMTS and CDMA.
  - Excellent Knowledge in Communications Testers, Network and Spectrum Analyzers, Oscilloscopes and Function Generators.
- Affiliations**
- Member of Editorial Review Board of "Amity Journal of Research, Innovation & Commercialization (AJRIC)".
  - IEEE Communications Society.
  - Palestine Engineers Association.
  - Jordan Engineers Association.
  - Palestine Green Building Council.
- Personal Interests & Hobbies**
- Reading.
  - Sports including football, swimming, and table tennis.
  - Puzzle Games.
- Languages**
- Arabic - Native Language.
  - English - Excellent.
  - German - good.
- References**
- Dr. Thomas Kaiser, PhD (Prof. Dr.-Ing)  
Head, Institute of Digital Signal Processing  
Duisburg-Essen University  
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0049 203 379 1873
  - Dr. Mohammad Ko'ali, PhD (Assistant Professor)  
Head, Electronics and Communications Engineering Department  
Al-Quds University  
mkoali1@eng.alquds.edu  
00970 599234808
  - Dr. Issam Amarneh, PhD (Associate Professor)  
Head, Mechanical Engineering Department, University of Business and Technology (UBT)  
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