Personal Information

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Education

- PhD in Electrical Engineering (2009 2013): University of Bolton, United Kingdom and NR Westphalia University of Applied Sciences, Germany Subject of Thesis: Development of Information and Communication Technology Strategies for Smart Grids
- Master's Degree in Microelectronics Design of Integrated Systems (2004 2005): Grenoble Institute of Technology (INPG), France Subject of Thesis: CAD environment for the injection of faults in the digital circuits using VHDL & C
- Bachelor's Degree in Electrical Engineering (1993 1998): An-Najah National University, Palestine Final Project: Measurements for Fiber Optics Networks (in cooperation with PALTEL)

Experience

• Professional Experience:

Networks Engineer in PALTEL (1998 – 2003). Main Duties:

- 1. Fibre optics cables installation, splicing, fusion, and measurements
- 2. Case studies in network planning of public switched telephone networks (PSTN)
- 3. Installation, administration & maintenance of S-12 ALCATEL telephone switches

• Academic Experience:

Part–time instructor at Arab-American University (2006 – 2009), Department of Telecommunications Full–time Associate Professor at Al Quds Open University (2006 – present), Department of ICT Duties based on embedded-learning:

- 1. Head of the ICT department at QOU (2016 2018, and 2019 2022)
- 2. Curricula development, course materials preparation, and book review
- 3. Supervision of lab courses, students projects, and Bachelor theses
- 4. Manage students' Internships with local institutions
- 5. Teaching Responsibilities (Bachelors and Masters):
 - Telecommunications: Telecoms I, Telecoms II, Telecoms Networks, Electromagnetic II, Antenna
 - Circuits and Electronics: Electric Circuits I, Electronics I, Electronics II, Digital Design Lab
 - ICT: Java, Network Programming using Java, Multimedia, Web Design

IT and Engineering Skills

Internet-based Technologies using Standard Protocols: Internet of Multimedia (IoMM) using Protocol XMPP Internet of Things (IoT) for Smart City Sectors using MQTT, and JSON/HTTP Industrial Internet of Things (IIoT) using MODBUS/TCP, and MQTT Protocol Internet of SCADA Systems using IEC 60870-5-104, and IEEE 754 Short Floating Point Internet of Energy using IEC 61850 for the Integration of Renewable Energy Sources in Electric Grids

• **Programming Languages:** Compiled Languages: Java, C, C# Web Languages: HTML, JavaScript, PHP, JSP Industrial PLC Languages: PLC Structured Text (Standard IEC 61131-3)

• Software Development Tools : Software IDE Tools: MATLAB, Android Studio Other Software: Linux–Ubuntu Operating System, and MySQL Databases

• Embedded Systems: Physical Layer Protocols: UART and SPI Electronics Design and Simulation Tools: PSpice, and LTSpice Development Platforms: FPGA Cyclone IV, Arduino, Raspberry PI

Wireless Communication Systems and Protocols: Bluetooth, Wi-Fi, ZigBee

Languages

• Arabic, English, French

Main Publications

• Journal Papers:

- 1. Generation of Multiple Frequency PWM Signals using FPGA (*QOU PJTAS 2021*) <u>https://journals.qou.edu/index.php/PJTAS/issue/archive</u>
- 2. Communication Protocols of an Industrial Internet of Things Environment (*Future Internet 2019, <u>Citations: 51</u>*) <u>https://www.mdpi.com/1999-5903/11/3/66</u>
- 3. MQTT for IoT-based Applications in Smart Cities (*QOU PJTAS 2019*, <u>*Citations: 12*</u>) <u>http://journals.qou.edu/index.php/PJTAS/article/view/1550/</u>
- 4. A bridge between legacy wireless communication systems and internet of things (*IJEEI 2019*, <u>*Citations: 3*</u>) <u>http://section.iaesonline.com/index.php/IJEEI/article/view/979/419</u>
- 5. Software-defined radio for modular audio mixers (*IEEE CEMAG 2017*, <u>*Citations: 10*</u>) <u>https://ieeexplore.ieee.org/document/8048739/</u>

• Conference Papers:

- 1. Open source software of smart city protocols (*International OSSCOM Conference Jordan, 2015, <u>Citations: 10</u>) <u>https://ieeexplore.ieee.org/document/7372690</u>*
- Communication strategy for grid control and monitoring of distributed generators in smart grids using IEC and IEEE standards (*IEEE ISGT Conference – UK*, 2011) https://ieeexplore.ieee.org/document/6162689/
- Integration of distributed energy resources in the grid by applying international standards to the inverter as a multifunctional grid interface (*IEEE PowerTech Conference Norway*, 2011) https://ieeexplore.ieee.org/document/6019288/
- Employment of programmable controllers, control systems and service oriented architecture for the integration of distributed generators in the grid (*IEEE ISIE Conference – Poland, 2011*) https://ieeexplore.ieee.org/document/5984302/
- Investigation and comparison between international standards for information integration and control of ECSs based on RESs over IP-based Networks (*ICREPQ Conference Spain, 2011*) http://www.icrepq.com/icrepq'11/238-jaloudi.pdf

• Books:

- Authorship:
 - 1. Telecommunications I, in Arabic, for QOU 2021.
- Revision:
 - 1. Analysis of Electrical and Electronics Circuits, in Arabic, for QOU 2020.
 - 2. Networks Programming, in Arabic, for QOU 2019.
 - 3. Web Pages Design, in Arabic, for QOU 2019.

Research Profile and Societies

- IEEE Profile:
 - Membership:
 - 1. Level: Senior Member (https://ieee-collabratec.ieee.org/app/p/DrSamerJaloudi)
 - 2. Society Memberships: IEEE Industrial Informatics, and IEEE Consumer Electronics
 - Reviewing:
 - 1. TPC of IEEE Sensors 2015-2017, 2021
 - 2. Reviewer for the IEEE Consumer Electronics Magazine, IEEE Access, and IEEE IoT Journal

• Google Scholar Profile

- Link: <u>https://scholar.google.com/citations?user=0tavruwAAAAJ&hl=en</u>
- h-index: 9
- Citations: 244

Research Interests

- Information and Communication Technologies of Renewable Energy Integration in Smart Grids
- Internet of Things (IoT) of Smart City Sectors, Consumer Electronics, and Industrial Applications
- Applications of Software-Defined Radio (SDR) in Engineering Education and Consumer Electronics

Scholarships, Awards, and Grants

- Fund for one-year project from the Deanship of Scientific Research at QOU about Smart Cities (2017)
- Grant from Erasmus+, Academic Staff Mobility, for one-week visiting Professor at OUC (2017)
- Master's Degree scholarship from the French Consulate in Jerusalem (2003 2005)