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## Ayman A. A. Wazwaz

**Certificates:** PhD student since 2019, internet of things, Egypt  
 MSc Telematics, 2005  
 BSc Computer Engineering. 1999

**Current position:** Lecturer in the Electrical Engineering Department, College of Engineering  
 Palestine Polytechnic University (PPU)  
 Hebron, Palestine  
 Since September 2005

<b>Personal</b>	Date of birth: 10 <sup>th</sup> July 1976  gender = male martial status : married
<b>Education</b>	<p><b>MSc : Telematics</b>                  2003 – 2005    University of Twente    Enschede , The Netherlands</p> <p><b>BA Engineering : Computer Systems Engineering</b>                  1994 – 1999    Palestine Polytechnic University PPU    Hebron, Palestine</p> <p><b>High School : Scientific stream</b>                  1991 - 1994    Tariq bin ziad school    Hebron, Palestine</p>
<b>Professional experience</b>	<p><b>Computer Maintenance / Support Coordinator</b>                  June 1999 – September 1999    Birzeit University    Ramallah, Palestine</p> <ul style="list-style-type: none"> <li>▪ Supervise computers and networks development and maintenance.</li> <li>▪ Training students in computer networking and maintenance.</li> </ul> <p><b>Computer Networks Administrator</b>                  October 1999 – 2003    Palestine Polytechnic University PPU</p> <ul style="list-style-type: none"> <li>• Network Administrator ( designing, building, managing and maintaining the computer network over 3 sites and about 500 PC )</li> </ul> <p><b>Lecturer</b> (September 2005 – now    Palestine Polytechnic University)</p> <ul style="list-style-type: none"> <li>• Teaching bachelor students courses in computer networking, Embedded Systems, Microcontrollers , digital systems, computer programming, supervising graduation projects</li> </ul>

<b>Additional professional activities</b>	<p><b>Programming Languages:</b></p> <ul style="list-style-type: none"> <li>• Java, Android, Pascal, C / C++, Oracle, Microsoft Access.</li> </ul> <p><b>Additional Activities:</b></p> <ul style="list-style-type: none"> <li>• Network Applications Programming and Development</li> <li>• Networking Simulations and performance analysis</li> </ul>
<b>Professional memberships</b>	<p><b>Membership in many activities and projects:</b></p> <ul style="list-style-type: none"> <li>• Master thesis "Power Control in wireless networks",2005</li> <li>• <i>Electricity and Water Department</i> Database Software for municipalities.</li> <li>• <i>Mpeg Over ATM</i> Multimedia interfacing Card (Research)</li> </ul>
<b>Languages</b>	<p>Arabic: Native Language.</p> <p>English: Fluent (Read, Write, speak)</p>
<b>References</b>	<ul style="list-style-type: none"> <li>• Dr. Ir. Geert Heijenk (Master Thesis Supervisor ) Design and Analysis of Communication Systems (DACs) Group University of Twente , Enschede, the Netherlands email : geert.heijenk@utwente.nl , Phone: +31 53 4895693</li> <li>• Dr. Radwan Tahboub Computer Engineering Department , PPU Email : radwant@ppu.edu phone : +970 2 2233050</li> <li>• Dr. Nafeth Nasreddin The Dean of Engineering College, PPU Email : nafeth@ppu.edu, phone : +970 2 2233050</li> </ul>
<b>Training and Courses</b>	<ul style="list-style-type: none"> <li>• Certified Cisco Academy Instructor( CCAI), 2003</li> <li>• Certified Cisco Network Associate (CCNA), 2003</li> <li>• IT Course and small business and projects management, 2002</li> <li>• Java Programming and Development, 2003</li> <li>• Training Courses in University Administration (the Netherlands), 2008</li> <li>• Training courses in teaching methodologies , 2011-2012</li> <li>• Android Applications Developer , 2014</li> </ul>

<b>Current Research</b>	Internet of things, Microcontrollers Applications and Performance, Embedded Systems, Mobile wireless networks, Ad hoc Networks ,Multi hop networks, Routing and MAC algorithms and mechanisms
<b>Teaching courses</b>	Computer Networks, Advanced Computer Networks, Embedded Systems , Microprocessors and Microcontrollers, Operating Systems, Graduation Projects, Information Security, Interfacing systems with Microprocessors, Digital Design, Computer Programming, Networks Programming
Publications and Projects	<ul style="list-style-type: none"> <li>• Thesis and book: MEDIUM ACCESS IN MULTI HOP WIRELESS INFRASTRUCTURES master thesis , University of Twente , the Netherlands, 2005.</li> <li>• Paper: Power control in Wireless MAC , Jordan , conference ACIT'2006</li> <li>• Paper: The Effect of Soft Handover Threshold on Data Loss and Delay in UMTS Networks, Jordan , International Arab Conference of eTechnology, 2012</li> <li>• Paper : Analysis of QoS parameters of VOIP calls over Wireless Local Area Networks, Jordan , conference ACIT'2012</li> <li>• Paper: Security System for Data Using Steganography and Cryptography (SSDSC). Third International Conference on Computer Science &amp; Engineering, Dubai 2016.</li> <li>• Paper: Raspberry Pi and computers-based face detection and recognition system, 4th International Conference on Computer and Technology Applications (ICCTA), Istanbul 2018.</li> <li>• Paper: Control and Monitor IoT Devices using EOG and Voice Commands, 9th International Conference on Advanced Technologies (ICAT'20), Istanbul 2020.</li> <li>• Paper: Error rate control in Humidity and Temperature sensors using IoT and ThingSpeak, The 2nd International Conference on Advanced Information Systems and Engineering (ICAISE 2020), Cairo 2020.</li> </ul> <p>I supervised more 30 graduation projects in the past 15 years, some of them participated in local and international competitions, and many of these projects got financial support, and won prizes. The topics of these projects:</p> <ul style="list-style-type: none"> <li>- Embedded Systems Applications and Performance</li> <li>- Internet of Things</li> <li>- Image and Video Processing</li> <li>- Wireless networking applications</li> <li>- Mobile applications and programming</li> <li>- Network simulations and Performance Analysis</li> <li>- Voice Over IP</li> <li>- Microprocessors and Microcontrollers Applications</li> </ul>