

**Yousef E. M. Hamouda**  
Al-Aqsa University, Gaza, Gaza Strip, Palestine, P.O. Box: 4051  
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**Nationality:** Palestinian

**Academic Education:**

Oct. 2007 – Feb. 2011 **Queen Mary, University of London, Electronic Engineering, London, UK.**

- PhD in Electronic Engineering and Computer Science.
- **Thesis:** The problem of energy-efficient collaborative single and multiple target tracking in Wireless Sensor Networks is considered for sensor nodes with limited energy resources and sharp manoeuvring targets of different importance. Optimization technique using the local search is adopted for sensor node selection to optimize the accuracy of targets tracking. The sampling interval is adaptively changed to improve the energy consumption. The problem of task mapping and scheduling for parallel systems is considered to optimize the energy consumption and execution time to execute the application. Event driven simulation is developed using C++ and MATLAB to evaluate the proposed algorithms.
- **Publications:** a published paper to IET Wireless Sensor Systems Journal selected as a **Featured Paper**
- Six other journal and conference papers.

Sept. 2006 – Sept. 2007 **Queen Mary, University of London, Electronic Engineering Dept., London, UK.**

- MSc. in Wireless Networks.
- **Project:** Java implementations for network client, proxy, firewall and server. The research into the live TCP/UDP migration among servers and proxies to make the services seamless in both fixed and mobile environments is considered. TCP/UDP sockets Migration has been implemented to cope with users' mobility and traffic load.
- **Project Grade:** Distinction (90%), "The highest mark for year 2006/2007"
- **Final Grade:** Distinction (90%) "**The Top student**".
- The first place among all the MSc students of the department for year 2006/2007.
- Awarded a **full scholarship** for PhD study by the QMUL

Sept. 1996 – Sept. 2001 **Ain Shams University, Cairo, Electronics & Electrical Communication Engineering Dept**

- BSc of Communications & Electronics Engineering.
- **Project:** Industry Standard Architecture (ISA) Card Interface and EPROM Programmer. Complete H/W and S/W (using Visual Basic.) implementation of the project.
- **Project Grade:** Excellent.
- **Final Grade:** Very Good.

Sept. 1994 – Sept 1995. **General Secondary Certificate**

- **Branch:** Science.
- **The fifth place** among all pupils for the year 1994/1995

### **Grants & Scholarships:**

Oct. 2007 – Feb. 2011 **Queen Mary, University of London, Electronic, “Top-Student Full College Scholarship”**

- Awarded a **scholarship** for PhD study by the QMUL.
- Waives the tuition fees for three years.
- Cover the expenses and living cost for three years.

Dec. 2014 – July 2015 **Bank of Palestine and Welfare Association, Palestine, “Zamalah Fellowship“.**

- Awarded the Zamalah Fellowship Programme.
- 6 months research at Queen Mary, University of London, Electronic Engineering, London, UK.
- Amount: 18700 USD.

Feb. 2016 – March 2017 **Qatar Charity, Palestine, “Ibath Grant“.**

- Awarded the Ibath Grant
- 15 months research at Al-Aqsa University.
- Employments: One research staff, two technicians and one research assistance.
- Amount: 25000 USD.

### **Work Experience:**

Oct. 2011 – Now **AL-AQSA University, Palestine, “Assistant Professor (full-time)”**

**Duties:** Teaching in Faculty of Science, Computer science Department. Scientific research and developments. Some of the teaching courses are computer networks, advanced computer networks, information and network security, electronic circuits, computer skills and projects supervision.

Jan. 2013 – Now **AL-AQSA University, Palestine, “Assistant (Dean) of Vice-President for Administration and Finance Affairs (full-time)”**

#### **Duties:**

- Administrating and prioritizing the work, tasks and duties for different departments including engineering, finance, medical, general maintenance, employee affairs, services, and purchase departments .
- The head of purchasing committees (Tender Opening and assuagement committees).
- The head of technical committees related to my specialist and job description.
- The head of investigation committee.
- The head of university-development committee related to my specialist and job description.
- The head of general technical specification

committee.

- The head of information unit for computerizing of the administrative and financial.
- Writing and applying the funding proposals for the university-projects.
- Ensuring and improving the administrative and financial services provided by the university administrative staff.
- A member of strategic planning committee for the University.
- The head of committee for the Administrative Excellence Award.
- A member of strategic planning committee for the University.
- The head of committee for Performance evaluation auditing.
- A member of Sustainability & Green Environment Committee.
- The head of recruitment interviews committees (Contract-based Vacancies).
- The member of graduation ceremony committee.

Oct. 2011 – June 2012

**Islamic University, Palestine, “Assistant Professor (Part-time)”**

**Duties:** Teaching in faculty of Engineering, Communication and Computer department. Some of the teaching courses are Antenna theory, and Advanced Antenna theory (for MSc students). Scientific research and developments.

Oct. 2007 – Feb. 2011

**Queen Mary, University of London, Electronic Engineering, “Lecturing (Part-time) & Research (full-time)”**

**Duties:** Lecturing MSc student. Teaching assistance in Labs. Supervising MSc and BSc students. Event organiser and SBC GOLD Coordinator in IEEE Region 8 student branch and GOLD Congress 2008.

May. 2005 – Oct. 2006

**AL-AQSA University, Palestine, “Manager of The Training Unit and Vocational Development (Part-time)”**

**Duties:**

- The Founder of The Training Unit and Vocational Development
- Management, development and administration of the unit.
- Teaching and training technical courses such as CCNA, MCSE, LPIC, Oracle, etc.

May 2004 – Oct. 2006

**AL-AQSA University, Palestine, “Teaching (Part-time)”**

**Duties:** Teaching in Faculty of Science, Computer science Department. Scientific research and developments. Some of the teaching courses are computer networks and projects supervision.

- Jan. 2003 - July 2003 **Islamic University, Palestine, “Teaching (Part-time) ”**  
**Duties:** Teaching in faculty of Engineering, Communication and Computer department. Scientific research and developments. Some of the teaching courses are Antenna, Electronic circuits and its Lab and communication systems.
- Jan. 2004 - Nov 2004 **Palestinian National Association For Youth “P.N.A.Y”, Palestine, “ IT Trainer (Part Time)”**  
**Duties:** Training computer maintenance and programming languages.
- Feb. 2001 – Aug. 2003 **The Benevolent Assembly Association, Palestine, “ IT Trainer (Part Time)”**  
**Duties:** Training of computer Networks, Internet, communication and IT.
- Jun. 2004 – Oct. 2006 **AL-AQSA University, Palestine, “Head of Networks and Technical Support Department”, “Deputy IT Manager “ & “University Web Site Supervisor ” (full-time).**  
**Duties:**
  - Managing, distributing and administrating the work and tasks among technical employees.
  - Development and extending the network services at the university to include new servers such as Name Servers, Mail Server, Proxy Server, Firewall Server, FTP Server, Cache Server, Active Directory, DHCP, WINS and others.
  - Development and extending the university network topology by configuration of network devices such as switches, routers, wireless and MODEMS.
  - Network administration, configuration of network operating systems such as Linux and MS Windows serves.
  - Installation of wireless networks equipments and design Local Area Networks (LANs) (Wired and Wireless). Installing and providing sound and videoconference systems.
- Aug. 2001 – Jun. 2004 **Al-Bahar Establishment (Presidential Office), Palestine, “Computer and Communication Engineer (full-time)”**  
**Duties:** LAN installation, building WAN connections (Wireless, Frame Relay, ISDN, Leased Line, SWAN, SCPC, VSAT, VOIP) and building computer networks. Technical trainer in networks and communication fields. Installation, configuration, management, monitoring and providing Internet access for different locations through wireless WAN Connections. Palestine Presidential Office is responsible for most computer networks of government ministries in terms of administration, development, maintenance and connections.
- Oct. 2001 – Oct. 2005 **Fusion Company (ISP), Palestine, “Computer and Communication Engineer (Part Time)”**  
**Duties:** Help desk, maintenance and troubleshooting for LANs, writing technical report, installation, building wireless WAN

(Breeze Access, DS11, EDMAX, WIMAX and Breeze Net System), configuration networks devices (Router, Switches, Access Servers, Networks Servers and firewall) and providing Internet for customers. Some of the projects carried out are installation of wireless point-to-point system by Breeze Access System for Al Sakhra Establish, installation of VSAT system for Palestine Bank and Installation of Breese Net B, and Breeze Access VL and PLC network for Palestine electricity company.

#### **Research Interests:**

- Internet Technologies (TCP/IP, switching, routing)
- Network Security
- Computer Networks
- Target Tracking
- Parallel Systems
- Wireless Sensor Network
- Energy-efficient systems
- Optimization and Modelling
- **Precision Agriculture**

#### **IT Skills:**

- **IT Courses & Certificates:** Oracle Certificate Professional, Linux Professional Institute Certificate (LPIC) Level 1 and 2, Security and Acceleration Server (ISA), Microsoft Certified System Engineer (MCP), International Electrical Products.
- **Computer Network:** Professional in installation and Management of LANs and WANs
- **Programming & Simulation:** Assembly, OrCAD, SPICE , EWB, Pascal, Visual Basic 0.6, Visual C++, Oracle, My SQL, MATLAB, HTML, PHP, Java Script and Java.
- **Operation System:** Professional user of Windows and Linux.
- **Utilities Software:** Wide knowledge about most of software used in computers
- **Maintenance:** Professional in Computer Maintenance
- **Training:** I have worked as IT Trainer in different courses such as Microsoft courses, A+, Programming Courses, Computer Networks, Communication and Unix Operation system courses.

#### **Reviewing & Research Supervision**

- **Oct. 2011- Present:**
  - External Examiner for seven MSc theses at Islamic University and Al-Aqsa University.
  - Three MSc theses reviewing at Islamic University.
  - Supervision of students' projects at Al-Aqsa University
- **Reviewing papers at different journals.**

#### **Publications:**

- **Journal Papers**
  1. Dr. Eng. Yousef E. M. Hamouda and Mr. Mohammed M. Mesalam "*Variable Sampling Interval for Precision*

*Agriculture using Wireless Sensor Networks*". Due to submit to Al-Aqsa University Journal for publication, 2016.

2. Yousef E. M. Hamouda and Chris Phillips, "*Adaptive Sampling for Energy-Efficient Collaborative Multi-Target Tracking in Wireless Sensor Networks*", IET Wireless Sensor Systems, Vol. 1, No. 1, pp. 15-25, 2011. **{Selected as their Featured Paper}**
3. Yousef E. M. Hamouda and Chris Phillips, "*Metadata Based, Optimal Sensor Selection for Multi-Target Tracking in Wireless Sensor Networks*", International Journal of Research and Reviews in Computer Science, Vol. 2, No. 1, 2011.

▪ **Conference Papers**

1. Yousef E. M. Hamouda and Chris Phillips, "*Metadata-Based Adaptive Sampling for Energy-Efficient Collaborative Target Tracking in Wireless Sensor Networks*", The 10th IEEE International Conference on Computer and Information Technology (CIT 2010), Bradford, UK, pp. 313-320, 2010.
2. Yousef E. M. Hamouda and Chris Phillips, "*Biological Task Mapping and Scheduling in Wireless Sensor Networks*", 2009 IEEE International Conference on Communication Technology and Applications (ICCTA2009), Beijing, pp. 914-919, October 2009.
3. Yousef E. M. Hamouda and Chris Phillips, "*Biologically Inspired, Cooperative Target Tracking Framework for Wireless Sensor Networks*", LCS 2009, University College London, London, September 2009.
4. Yousef E. M. Hamouda and Chris Phillips, "*Biologically Inspired, Self Organizing Communication Networks*", PGNNet2007 & EPRC, Liverpool, June 2008.

▪ **Other Conference Papers & Activities**

1. Yousef E. M. Hamouda, "*Wireless Sensor Networks Applications*", Computer Department Student Club, Al-Aqsa University, Palestine, 2012.
2. Yousef E. M. Hamouda and Chris Phillips, "*Biologically Inspired, Self-Organizing Communication Networks*", 1st Annual EECS Postgraduate Conference, Queen Mary University of London, 2009.
3. Yousef E. M. Hamouda and Chris Phillips, "*Biologically Inspired, Collaborative Target Tracking in Wireless Sensor Networks*", Poster presentation, Research open day, Queen Mary University of London, 2010.
4. UWB Technology, National Physical Laboratory (NPL), Middlesex, UK, 2007
5. UWB Workshop, University College London, London, 2008.

**Development Courses:**

- **Writing Skills:** Centre for Academic and Professional Development, QMUL.
- **Presentation Skills:** Centre for Academic and Professional Development, QMUL.

- **Poster Development:** Centre for Academic and Professional Development, QMUL.
- **Research Skills:** Centre for Academic and Professional Development, QMUL.

### **Associations & Volunteer Jobs :**

- Former Membership of the IEEE Region 8 Student Branch at Queen Mary, University of London.
- Membership of Engineers Association, Palestine
- Event Coordinator of the IEEE Region 8 Student Branch and GOLD Congress 2008
- Active member of my residential town.

### **Languages Skills:**

- **Arabic:** Native Language.
- **English:** Excellent.

### **References:**

- Dr. Chris Phillips, Reader at Queen Mary University of London, Mile end road, London E1 4NS, UK, +44 20 7882 7989, chris.phillips@elec.qmul.ac.uk
- Dr. Salam Elagha, The president of Al-Aqsa University, Gaza Strip, Mob. 00970599418803
- Dr Amar Abohadroos, head of electrical engineering, Islamic university of Gaza, Gaza, Palestine, PO. Box 108, +970 8 2860700 ext. 2873, ahdrouss@iugaza.edu.ps