Ala Hamarsheh

Address:
Yabad – Yaseen Street
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Education	
➢ **PhD in Engineering Sciences**	//2009-2012//

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➢ **PhD in Engineering Sciences**   //2009-2012//
Protocol Engineering in Computer Networks
PhD Title: Breaking the Deadlocks for Transition to IPv6
Vrije Universiteit Brussel, Brussels – Belgium.
Evaluation: **Greatest Distinction.**

➢ **Master Degree in Computer Science**   //2001-2003//
University of Jordan, Amman - Jordan.
Evaluation: **Very Good (3.59 out of 4).**

➢ **B.Sc. in Computer Science**   //1996-2000//
Birzeit University, Ramallah - Palestine.
Evaluation: **Good (75%).**

Objective

To have a profession that will enhance my knowledge, as well as seek a better financial and experience positions in new opened horizons. Moreover, applying the knowledge I had gain into a very useful media.

Languages

Fluency in verbal and writing in both English and Arabic.

Work Experience

☼ **The Arab American University**   2012 – Present
Jenin – Palestine
Full-time Assistant Professor at the Faculty of Engineering and Information Technology of the Arab American University of Jenin, AAUJ.

- ❖ Mentored students to achieve their academic goals.
- ❖ Drafted examination papers and evaluated student's assignments and classwork.
- ❖ Maintained records of student's progress.
- ❖ Informed students regarding attendance and academic policies.
- ❖ Planned class schedules and maintained daily lesson plans.
- ❖ Assisted in curriculum revision and academic planning activities.
- ❖ Addressed teaching and research issues.
- ❖ Participated in university events and educational committee.

☼ **Vrije Universiteit Brussel (VUB)**   2011 – 2012
Brussels – Belgium
PhD researcher.

☼ **The Arab American University**   2003 – 2009
Jenin – Palestine

Full-time instructor at the Department of Management Information Systems of the Arab American University of Jenin, AAUJ.

☼ **The University of Jordan**   2001 – 2003
Amman, Jordan

Teacher Assistant and Lab Technician

- ❖ Devising lab courses together with the supervising professor.
- ❖ Coordinating, persuing and supervising projects given to student as a part of the academic process.
- ❖ Ugerly assisting students/professors in their scientific research.
- ❖ Supporting professors through providing presentation and computerized materials necessary for the success of their classes.

☼ **Galaxy Information Systems**   2000 – 2001
Ramallah, Palestine

Java Programmer & Web Developer

- ❖ Java Programmer and Trainer.
- ❖ Web Design and Programming (Using ASP, Servlets, DHTML, …Etc).

Academic Positions

☼ Acting VP for academic affairs, from September 2016 to August 2017.
☼ Assistant of VP for academic affairs, from September 2015 to August 2016.
☼ President's assistant for IT affairs, from September 2013 to August 2014.
☼ Assistant of VP for academic affairs, from September 2012 to August 2015.
☼ Coordinator of the Management Information Systems department, from September 2004 to August 30, 2005.
☼ Coordinator of the Management Information Systems department, from September 2006 to August 30, 2007.

Scholarships

☼ Offered an Academic Staff scholarship for one month to write a PhD proposal at the Vrije Universiteit Brussel (VUB), Brussels/Belgium. The scholarship is sponsored by Erasmus Mundus University II from Feb 18, 2008 until March 19, 2008.

☼ Offered a full scholarship for 32 months to pursue my PhD at the Vrije Universiteit Brussel (VUB), Brussels/Belgium. The scholarship is sponsored by Erasmus Mundus University II.

Highlights of Qualifications

- ▪ Wide experience in teaching assigned subjects in University
- ▪ Sound knowledge of instructional techniques
- ▪ Exceptional knowledge of student assessment practices
- ▪ Familiarity with web technologies used for teaching purposes

- Proficient with research programs
- Ability to develop course curriculum
- Ability to teach students from diverse backgrounds
- Ability to mentor bachelor and masters level students

Skills

- Web Developer: ColdFusion, ASP, ASP.NET, VB.NET
- Java, C, C++, Pascal, FORTRAN, SQL / PL – SQL.
- Sun Certified Programmer for Java 2 Platform / Sun Microsystems.
- Very Good experience in Java Networking, Java Servlets, JavaScript, VBScript.
- Oracle Certificate By ATS Company (Develop forms & reports using Developer2000).
- Operating System: Win 9x, Win NT, Win2000, Win XP, Win 7.
- Adding to that my knowledge in the Office 2010 programs such as (MS-Word, MS-Excel, MS-Access and the MS-Power Point).

Research Interests

- Breaking the deadlocks for transition to IPv6.
- Computer Networks.
- Distributed Databases, Concurrency Control Techniques, and Mobile Transaction Processing.
- Securing the data communication via Internet, such models proposed are Steganography and Wathermarking. I have a research in Steganography of how to hide text message in another text message.
- Propose models for distributed systems like Remote Procedure Call (RPC), Group Communication, and Client Server models.
- Artificial Intelligence and Machine Learning.

Publications

<< Journal Publications >>

- Hamarsheh A., and Goossens M., "Hosts with Any Network Connectivity Using "Bump-in-the-API"(BIA)", published by Internet Engineering Task Force (IETF), 2010.
- Hamarsheh A., Goossens M., and Alasem R., "Decoupling Application IPv4/IPv6 Operation from the Underlying IPv4/IPv6 Communication (DAC)", American Journal of Scientific Research, issue 14, pp.101 - 121, eds. ISSN: 1450-223X, published by EuroJournals Publishing, Inc., London, England, 2011. (Indexed in Thomson Reuters Master Journal List, Acceptance Rate: 10%).
- Hamarsheh A., Goossens M., and Alasem R., "AIN-SLT: Assuring Interoperability between Heterogeneous Networks (IPv4/IPv6) Using Socket-Layer Translator", American Journal of Scientific Research, issue 15, pp.33 - 43, eds. ISSN: 1450-223X, published by EuroJournals Publishing, Inc., London, England, 2011. (Indexed in Thomson Reuters Master Journal List, Acceptance Rate: 10%).
- Hamarsheh A., and Goossens M., "Exploiting Local IPv4-only Access Networks to Deliver IPv6 Service to End-users", INTERNATIONAL JOURNAL of COMPUTERS and COMMUNICATIONS, issue 3, vol.5, pp.169 - 177, published by UNIVERSITY PRESS, 2011.
- Hamarsheh A., Goossens M., and Alasem R., "Configuring Hosts to Auto-

detect (IPv6, IPv6-in-IPv4, or IPv4) Network Connectivity", *KSII Transactions On Internet And Information Systems, from [Internet & Communications]*, issue 7, vol.5, n. 2, pp.1230 - 1251, published by KSII-KOR SOC Internet Information, 2011. (Indexed in SCI, Impact Factor in 2011: 0.372, Acceptance Rate: 20%).

- Hamarsheh A., Goossens M., and Al-Qerem A., "Assuring Interoperability Between Heterogeneous (IPv4/IPv6) Networks Without using Protocol Translation", *IETE Technical Review, issue 2, vol. 29, pp. 114 - 132, published by MedKnow*, 2012. (Indexed in SCI, Impact Factor in 2011: 0.724, Acceptance Rate for 2012: 12%).
- Hamarsheh A, Goossens M, "A Review: Breaking the Deadlocks for Transition to IPv6", IETE Technical Review, issue 6, vol. 31, pp. 405 - 421, published by Taylor & Francis, 2014. (Indexed in SCI, Impact Factor in 2013: 0.925).
- Ala Hamarsheh, "Exploiting Omega Networks to Hide Text-in-Text Messages", IJCSNS International Journal of Computer Science and Network Security, VOL.15 No.5, May 2015. (Emerging Sources Citation Index (ESCI)/Thomson Reuters Master Journal List).
- Abdallah Hamdan, Ala Hamarsheh, "AH4S An ALGORITHM OF TEXT in TEXT STEGANOGRAPHY USING THE STRUCTURE OF OMEGA NETWORK", Security and Communication Networks, Vol. 9, issue 18, PP. 6004-6016, ISI Journal Citation Reports © Ranking: 2015: 57/82 (Telecommunications); 103/144 (Computer Science Information Systems), 2017, Impact Factor: 0.806.
- Shadi Nashwan, Ala Hamarsheh, "An Extended Approach for Enhancing Packet-Loss of inter-SGSN in 3G Mobile Networks", International Journal of Computer Network and Information Security(IJCNIS), Volume: 9, issue 11, 2017.
- Ahmad Alqerem, Ala Hamarsheh and Shadi Nashwan, "OCC-Mix Approach for Concurrent Mixture of Fixed and Mobile Transactions", Journal of Digital Information Management, vol. 15, issue 5, 2017.

<< Conference Publications >>

- Hamarsheh A., Goossens M., and Alasem R., "Deploying IPv6 Service Across Local IPv4 Access Networks", *The 10th WSEAS International Conference on TELECOMMUNICATIONS and INFORMATICS (TELE-INFO `11)*, pp.94 - 100, eds. Lanzarote, Canary Islands, Spain May 27-29, 2011, published by WSEAS Press, 2011. (Indexed in SCI).
- Hamarsheh A. and Goossens M., " Illustrating the Impediments for Widespread Deployment of IPv6", *Proceedings of The 11th WSEAS International Conference on TELECOMMUNICATIONS and INFORMATICS (TELE-INFO `12)*, pp. 16-25, Saint Malo & Mont Saint-Michel, France, April 2-4, 2012. (Indexed in SCI).
- Ala Hamarsheh and Mujahed Eleyat, "Performance Analysis of AIN-PT, AIN-SLT and SIIT Network-Based Translators", Advances on P2P, Parallel, Grid, Cloud and Internet Computing Proceedings of the 12th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC-2017), Lecture Notes on Data Engineering and Communications T. Springer, Proceeding Volume: 10, Palau Macaya, Barcelona, Spain, 2017.

<< Book Publications >>

- Hamarsheh A., (2012), "Breaking the Deadlocks for Transition to IPv6", ISBN 978 90 5718 200 6, VUBPRESS UPA - University Press Antwerp, Brussels/Belgium.

Training	❑ Sun Certified Programmer for Java™ 2 Platform.
	❑ Sun Certified Web Component Developer Certification for J2EE™ Platform.
	❑ Object Oriented Principles (Java & C++).
	❑ Advanced java Networking.
	❑ HTML Language, FrontPage2000, Visual InterDev6.
	❑ Developer 2000 (SQL, Forms, Reports)

Team Work	Skills gained:
	❖ Sharing information with workmates effectively and seamlessly
	❖ Work disciplines and code of conducts
	❖ Time appreciation and synchronization
	❖ Inter-relations with foreign experts

| **Interests** | Reading in the discipline of Computer Science, Internet, and Programming. Non-academic reading and many others. |

| **Others** | ➢ Holding Driving License (Palestinian). |
| | ➢ References are available upon request. |