

PERSONAL INFORMATION



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POSITION

Assistant Professor of Computer Science

WORK EXPERIENCE

September 2013-present

Assistant Professor

Jordan University of Science and Technology, Irbid, Jordan

- Teach graduate and undergraduate computer science courses.
- Prepare the course entirely.
- Supervise Master Students in their thesis.
- Supervise senior undergraduate student during their final project
- Review internal project proposals.
- Serve on hiring committees.
- Serve on graduate admissions committees.
- Participate in both undergraduate and graduate curriculum review.

[Business or sector](#) Education

January 2013-September 2013

Research and Development Engineer

General Motors, USA

- I conducted research on how to utilize V2V communication for car crash avoidance applications. In particular, I conducted research on the scalability of DSRC-based V2V networks, analysed current congestion control algorithms, and proposed new algorithms to solve the congestion problem in such networks.

[Business or sector](#) Industry

August 2007-January 2013

Graduate Teaching Assistant

Electrical and Computer Engineering Department, Wayne State University, USA

- Taught three laboratory courses, namely: Digital Circuit Laboratory (Undergraduate Sophomore level), Computer Organization Laboratory (Undergraduate Senior level), and Introduction to microcontroller laboratory according to a systematic plan of lectures, demonstrations, and small applied projects.
- Prepared and administered all lab course related exams and projects and marked them according to a plan to assess the student outcomes in compliance with the Accredited Board for Engineering and Technology (ABET) standards.
- Developed the lab course syllabus and I prepared class notes and courses outlines.

[Business or sector](#) Education

January 2007-January 2013

Research and Development Engineer

Multimedia Computing and Networking Research Lab, Wayne State University, USA

- Developed an automated video surveillance system simulator that was based on OPNET.
- Developed a Video-on-Demand server simulator using C.
- Developed a JPEG image decoder using C.
- Developed a Motion JPEG video streamer using C.
- Developed a MIPS processor simulator using Verilog.
- Developed some simple applications using the Motorola 6800 microcontroller.
- Developed an image classification system using MATLAB.
- Designed and developed a 2D game using Microsoft XNA and C# for Windows platform.

Business or sector Research and Development

Replace with dates (from - to)

Instructor (Full Time Lecturer)

Jordan University of Science and Technology, Irbid, Jordan

- taught the following courses : CS 100 Computer Skills, CS 101 Introduction to Information Technology, CS 112 Introduction to Programming, CS 115 C++ programming, CS 211 Data Structures, and CS 311 UNIX Programming.

Business or sector Education

EDUCATION AND TRAINING

January 2007-April 2013

PhD in Computer Engineering

4.0/4.0

Wayne State University, USA

- Gained a valuable research experience in multimedia networks and system field.
- Gained image processing and computer vision research skills.

Replace with dates (from - to)

Master of Science in Computer Science

3.8/4.0

New York institute of technology

- Took many advanced courses in the computer science field such as Advanced Algorithms, Advanced operating systems, Advanced AI, Advanced Computer Organization, Advanced Networks, and many others.

Replace with dates (from - to)

Bachelors in Computer Science

Graduated with Honour

Jordan University of Science and Technology, Jordan

- Programming (C, C++, JAVA)
- Computer Science Core (Operating Systems, Databases, Networks, Software engineering, Computation Theory, Computer Architecture, Compiler Design, Digital Design, Microprocessor)
- Math (Calculus, probabilities, statistics, linear algebra, discrete math, numerical)
- Web development.

PERSONAL SKILLS

Mother tongue(s)

Arabic

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT

- Communication skills**
- Excellent communication skills in both Arabic and English gained through my teaching experience and GM work experience as we had to do a lot of group meeting.
- Organisational / managerial skills**
- Leadership gained through my student supervising experience and also through leading research groups at Jordan University of Science and Technology and General Motors.
- Job-related skills**
- Good teaching and course management skills (my student reviews are always above 85%)
 - Very good programming skills.
 - Extensive simulation experience.
- Computer skills**
- Use both Linux (UNIX) and windows environment professionally
 - Very good programming skills

ADDITIONAL INFORMATION

- Publications
- Projects
- Conferences
- Seminars
- Honours and awards
- Memberships
- References

Publications

- Alawneh, Khaled; Al-dwiekat, Mays; Alsmirat, Mohammad; Al-Ayyoub, Mahmoud, "Computer-aided diagnosis of lumbar disc herniation," Information and Communication Systems (ICICS), 2015 6th International Conference on , vol., no., pp.286,291, 7-9 April 2015
- Mhaidat, Y.; Alsmirat, M.; Badameh, O.S.; Jararweh, Y.; Bany Salameh, H.A., "A cross-layer video multicasting routing protocol for cognitive radio networks," Wireless and Mobile Computing, Networking and Communications (WiMob), 2014 IEEE 10th International Conference on , vol., no., pp.384,389, 8-10 Oct. 2014
- Alsmirat, M.A.; Sarhan, N.J., "Cross-Layer Optimization and Effective Airtime Estimation for Wireless Video Streaming," Computer Communications and Networks (ICCCN), 2012 21st International Conference on , vol., no., pp.1,7, July 30 2012-Aug. 2 2012
- Detailed Performance and Waiting-Time Predictability Analysis of Scheduling Options in On-Demand Video Streaming. [EURASIP J. Image and Video Processing 2010](#) (2010)
- Waiting-time prediction in scalable on-demand video streaming. [TOMCCAP 6\(2\)](#) (2010)
- Performance and Waiting-Time Predictability Analysis of Design Options in Cost-Based Scheduling for Scalable Media Streaming. [MMM 2009](#): 150-162
- Predictive cost-based scheduling for scalable media streaming. [ICME 2008](#): 857-860
- Analysis of waiting-time predictability in scalable media streaming. [ACM Multimedia 2007](#): 727-736

Current research Projects

- A Realistic NS3-based Automated Wireless Video Surveillance Simulation Framework.
- Congestion Control in Vehicle to Vehicle communication for Collision Avoidance Applications.
- Diagnosing Lumbar Disk Herniation using Computer.
- Virtualization over Cognitive Radio Networks.

Honours and awards

- Member of Tau Beta Pi engineering honour society. Wayne State University, Detroit, MI, November 2011.
- Outstanding Teaching Assistant Service Award, Wayne State University, Detroit, MI, April 2011.
- Full PhD Scholarship, Wayne State University, Detroit, MI, January 2007.
- Full Master degree sponsorship, Jordan University of Science and Technology, Irbid, Jordan, 2002.
- Listed on Dean's Honour List, Jordan University of Science and Technology, Irbid, Jordan, 1998-2002.
- Listed on the President's Honor List, Jordan University of Science and Technology, Irbid, Jordan, 2000-2002.
- Ministry of High Education Sponsorship during my Bachelor study, Jordan University of Science and Technology, Irbid, Jordan, 1999-2002.
- Ranked first in my High school, Ramtha Secondary School, Ramtha, Jordan, 1998.