Prof. Omar M. AL - Jarrah

Vice President for Planning and Development & CIO

I have learned to articulate goals together with my team and work with them to attain the goals. I keep all members engaged, build a spirit of ownership, and focus on the goals. I inspire my team to be passionate with good team spirit. However, I derive change to deliver positive results and manage risks using plan, do, check, and act cycle. I follow up on the performance of my team members, encourage continuous professional development, and improve their networking skills.

✉ o.aljarrah@arabou.edu.kw   📍 Al - Ardayeh, Kuwait   in linkedin.com/in/omar-al-jarrah-2a87825

SKILLS

Leadership

Strategic Planning

Digital Transformation

Research and Innovation

Adoptability

Conflict management

LEADERSHIP & ADMINISTRATIVE POSTS.

Vice President for Planning and Development & CIO
Arab Open University

10/2018 – Present   *AL- Ardayeh – Kuwait*

My Role

- Developing an IT strategy road map for the Arab Open University.
- Leading the digital transformation program throughout AOU campuses.
- Chairperson of the Building committee which manages the projects, renovation, and maintenance of AOU buildings in all countries.
- Introducing Data Analytics to support the administrative and academic decision-making processes.
- Overseeing the implementation of the AOU strategic plan including all branches and the HQ.
- Introducing several technologies and IT solutions that contributed to the advancement of the AOU.

President
Jordan University of Science & Technology (JUST)

08/2016 – 01/2018   *Irbid – Jordan*

Achievements

- Improving the rank of JUST in THE World University Rankings and entering the top 500 World universities list by advancing 200 places in 2018 and moving from the 601-800 range in 2017 into the 401-500 range in 2018.
- Improving the rank of JUST in QS World University Rankings and rating from 3 stars in 2016 to 5 stars in 2017.
- Develop a new strategic plan and transformation program JUST 2020 to build future leaders and to place JUST amongst the world-class universities, the program focuses on 4I's: Innovation, Industry, Internationalization and Interdisciplinary programs.
- Improve the financial performance by increasing the income by three million JDs and reducing expenditure by seven million JDs.
- Increasing the research and innovation funding and improve external funding by more than 300%.
- Establishing seven new graduate programs and accepting students in two Ph.D. programs (Civil Engineering and Pharmacy).

LEADERSHIP & ADMINISTRATIVE POSTS.

President
Amman Arab University

07/2014 – 08/2016   *Amman – Jordan*
Achievements

- Improving the University image and recognition using comprehensive public relation policies.
- Utilizing clean energy, especially solar, and building a green campus.
- Establishing a quality assurance system in management and education and seeking ISO certification and international accreditation.
- Improving QS international ranking of Arab University by 120 places and entering the 100 top Arab Universities list.
- Establishing the Faculty of Engineering and the Faculty of Pharmacy and introducing new programs including those that are unique in Jordan such Human Resource Management Program, Accounting and Business Law and Audit and Management Control in collaboration with BDO.
- Improving student enrollment by 150 % and the financial performance by 110%.

Vice President
Jordan University of Science & Technology (JUST)

06/2010 – 06/2013   *Irbid, Jordan*
My Role

- Head of the central tendering department.
- Responsible for Engineering, ICT, Graduate Studies faculties, and Scientific Research.
- Supervising the various online applications including admission application, attendance system, portfolios, and others.
- Steering the Innovation initiative and establishing the center of excellence for innovative projects.
- Steering the Information Technology strategy & Steering the nanotechnology initiative.
- Leading the smarter campus initiative and the Photovoltaic Power station 4 MW project.

Assistant President for ICT
Jordan University of Science & Technology (JUST)

09/2004 – 06/2010   *Irbid – Jordan*
My Role

- Leading the automation and implementation of the Student Information System, central supplies department, and ERP.
- Supervising the upgrade of the website and JUST's portal.
- Evaluate technologies and make recommendation to the President.
- Supervising e-learning activities.
- Coordinating with various ICT vendors to build incubators.

PROFESSIONAL EXPERIENCE

Consultant for EMIS – Ministry of Higher Ed. & Sci. Research Amman, Jordan (02/2012 – 05/2017)
Head of the EMIS committee and advising the Minster on issues related to EMIS and ICT.

Jordan Senior ICT Management Information System Advisor – UNESCO Amman office, (05/2014 – 12/2017)
Advise EMIS steering committee on institutional, organizational and technical issue related to Open EMIS implementation and deployment.

Advisor for ICT – Ministry of Education Amman, Jordan (01/2016 – Present)
Develop an implementation plan for the ICT strategy in education. Head of the EMIS committee and advising the Minster on issues related to EMIS and ICT.

Board of Directors Member – King Abdullah II Design and Development Bureau (KADDB) (05/2014 – Present)
Member of the Audit committee.

Advisor for ICT – Ministry of Education Amman, Jordan (10/2012 – 10/2013)
Head of several committees and advising the Minster on issues related to EMIS and ICT. Head of the ICT strategic plan committee.

Advisor for ICT – Ministry of Higher Ed. & Sci. Research Amman, Jordan (03/2006 – 06/2007)
Head of the national e-learning committee, Member of the data centers committee, Advising the Minister on various issues related to ICT.

ACADEMIC POSTS

Professor, Computer Engineering
Jordan University of Science & Technology (JUST)

10/2007 – Present   *Irbid – Jordan*

Graduate Courses:
- Parallel Processing
- Artificial Intelligence
- Advanced Computer Networks
- Computer Networks
- Data Center Security

Associate Professor, Computer Engineering
Jordan University of Science & Technology (JUST)

09/2001 – 10/2007   *Irbid – Jordan*

Undergraduate Courses:
- Programming in C++
- Computer Architecture and Organization
- Digital Logic Design Lab
- Microprocessor Systems Design
- Microprocessor Systems Design Lab

Assistant Professor, Computer Engineering
Jordan University of Science & Technology (JUST)

03/1994 – 08/1996   *Irbid – Jordan*

Undergraduate Courses:
- Microprocessor Interfacing Lab.
- Computer Networks
- Sys. Software Design, Development, & Documentation
- Data Communication
- Internetworking

Research Associate
The Ohio State University

02/1991 – 12/1992   *Columbus, Ohio, USA*

QUALIFICATIONS

Ph.D. Electrical/Computer Engineering
The Ohio State University, Ohio, USA

06/1994 – 06/1996   *Ohio, USA*

M.SC. Electrical/Computer Engineering
The Ohio State University, Ohio, USA

04/1993 – 06/1994   *Ohio, USA*

B.SC. Electrical/Computer Engineering
Jordan University of Science and Technology, Jordan

06/1986 – 08/1991   *Irbid, Jordan*

SENIOR PROJECTS SUPERVISED

* Design and Implementation of a 3-Link Robot Manipulator

* Design and Implementation of a TTL IC Tester

* Global Positioning System

SENIOR PROJECTS SUPERVISED

* Design of a Position Control System for a 2-Link Robot Manipulator Using Fuzzy logic.

* Arabic Numerals Recognition Using Neural Networks

* Web-based 68000 Emulator and Assembler.

* JUST LAN Analysis and Proposal for a New Design.

* Analysis & classification of crowd-sourced news reports: A case study of the Syrian Crisis

* Human-Computer Interaction using Real-Time Gaze Tracking System

* E-voting System for Jordan's Elections

* Smart Bedroom and Smart House

* Mobile Robot Soccer Game.

* Controlling House Appliance Using Bluetooth.

* Design of a Position Control System for a 2-Link Robot Manipulator Using Neural Networks.

LANGUAGES

Arabic ● ● ● ● ●

English ● ● ● ● ●

RESEARCH INTERESTS

Robotics   Intelligent Systems   Data Mining   Wireless Networks

Cloud Computing   Embedded Systems

RESEARCH GRANTS

Primary Investigator, Innovative conservation approaches for monitoring and protecting ancient and historic metals collections from the Mediterranean basin (PROMET),EU,
€49,000.

Co-Investigator, Center of Excellence for Innovation in Robotics and Intelligent Automation, Royal Court
JD 3,500,000.

Primary Investigator, Mediterranean Network for Unified Distance Learning (Med Net'U), EU,
€150,000.

Primary Investigator, Open Distance Inter-University Synergies between Europe, Africa, and Middle East (ODISEAME), EU,
€100,000.

Primary Investigator, Mediterranean Virtual University (MVU), EU,
€221,018.

Primary Investigator, Tailored strategies for the conservation and restoration of archaeological value Cu-based artefacts from Mediterranean Countries (EFESTUS), EU,
€51,000.

Primary Investigator, Center for Higher performance Computing, HEDP (World Bank),
$225,000.

Co-Investigator, Excellence of Nanoscience Education for MENA Region (XNEM), EU,
€165,000.

PROFESSIONAL AND SCIENTIFIC MEETINGS

Speaker	6th JANA annual Forum on E-Learning opportunities, "E-Learning: Infrastructures and digitals gaps", October 2020.	**Speaker**	The virtual Forum for Education and Distance Learning during Emergencies and Crises, August 2020.

PROFESSIONAL AND SCIENTIFIC MEETINGS

Panelist and speaker	MENA Innovation forum "Transformation through Critical Thinking in Education & Scientific Research", Muscat, Oman, 2019.	**Keynote speaker**	The International Conference on Computer and Information Science "Security Challenges in Cloud Computing", AlJouf, KSA, 2019.
Speaker	the Eurasia Foundation-University Partnerships Workshop "Creating Pathways to U.S.-Jordanian University Partnerships", Amman, 2017.	**Speaker**	The second UNESCO International Day for the Universal Access to Information, Irbid 2017.
Speaker	10th QS World Class seminar "Industry, Business and Higher Education Management and Governance", Taiwan 2017.	**Speaker**	The ASREN workshop "Enabling Innovation by Developing e-Infrastructures in Jordan", Jordan 2017.
Speaker	The DUNIA Beam closing conference, Jordan needs, Bruit, Lebanon, 2016.	**Speaker**	The MENA-ET Education Technology Conference and Fair, Amman, Jordan, 2014.
Speaker	"Data Quality, Trust, and Usage," ERSP Data Use Dialogue, Dead Sea Jordan, 2014.	**Speaker**	The ICT in Education Standards, Requirements and Showcases, Amman, Jordan, 2013.
Speaker	"Healthcare ICT, Opportunities and Challenges," Conference of Arab Expatriate Scientists "When Arab Minds Integrate" Cairo, 19-20 December 2012.	**Keynote speaker**	"Cloud Computing: opportunities and Challenges," the fourth IEEE International Symposium on Innovation in Information & Communication Technology (ISIICT 2011), Amman Jordan, 2011.

PROFESSIONAL ACADEMIC ACTIVITIES

Publicity Chair
The Fourth ACS/IEEE International Conference on Computer Systems and Applications (AICCSA).

Co-Chair
The 5th International Symposium on Mechatronics and its Applications (ISMA08).

Head of the Steering Committee and co-chair
The program committee of the International Conference on Information and Communications Systems.

Publications Chair
The 1st International Nuclear & Renewable Energy Conference.

Conference chair
The International Conference on Information and Communications Systems.

Member in the Steering Committee
The Arab International conference on Information Technology.

Vice Conference chair
The Arab International conference on Information Technology.

Member in the editorial board
Journal of Recent Patents on Electrical Engineering.

Member in the editorial board
The International Arab Journal of Information

Associate Editor
The International Journal of Modeling and Simulation

PUBLICATIONS

Google Scholar portfolio (h-index 21 & i10-index 29 – Citations 1877)
Omar Al-Jarrah ⧉
Conference Papers & Journal Papers
Total Number of 74 Papers

shorturl.at/ouzA1

Book Chapter
"Advanced Studies of Flexible Robotic Manipulators : Modeling, Design, Control, and Applications,"
Author(s)
O. Al-Jarrah, Y. Zheng, and K. Yi
2003
World Scientific Pub Co Inc

PUBLICATIONS

Book Chapter

"DEVS-Based Modeling and Simulation to Reveal Emergent Behaviors of IoT Devices,"

Author(s)

M. Jarrah and O. Al-Jarrah

2022

Emergent Behavior in System of Systems Engineering 1st Edition edited by L. Rainey and O. Holland, CRC Press Taylor & Francis Group

PATENT

"System and Method for Providing Real-Time Visual Feedback to Control Multiple Autonomous Nano-Robots"

Author(s)

O. Al-Jarrah

2018

US patent No. 10037865, July 2018.

AWARDS

Five times recipient of the university award of honor

Jordan University of Science and Technology

Top Rank student on the batch for the commencements (1991)

Prince Al-Hassan's award

"ReBraille: Affordable Computer Displays for the Blind" 2010.

National Technology Parade prize

Al-Hussein Prize for Excellence

achieving excellence in the computer science and ranking number one in Jordan by the British QAA, 2004.

Finalist for the Best Student Paper in the IEEE International Conference on Robotics and Automation ICRA 1997.

IEEE International Conference on Robotics and Automation ICRA

Nine times on The College of Engineering Honor List

Jordan University of Science and Technology

Award of Excellence for the 2015 superior editorship

The International Journal of Modeling and Simulation, ACTA Press.

Arab Pioneers and innovators award for contribution in Informatics, 2008.

Arab Pioneers and innovators award

Best Cisco Regional Academy Instructor 2010-2011.

Cisco Regional Academy

Finalist for the Best Student Paper in the IEEE International Conference on Robotics and Automation ICRA 1996.

IEEE International Conference on Robotics and Automation ICRA