Jamal N. Bani Salameh
Professor of Computer Engineering

1. PERSONAL INFORMATION

- **Name:** Jamal N. Bani Salameh
- **Date of Birth:** August 21, 1965
- **Nationality:** Jordanian
- **Marital Status:** Married (Four Children).

2. CURRENT ACADEMIC RANK

Professor of Computer Engineering

3. CURRENT AFFILIATION

Professor of Computer Engineering at Faculty of Engineering / Mutah University

4. MAILING ADDRESS

Department of Computer Engineering,
Faculty of Engineering
Mutah University
P.O.Box 7, Al-Karak, Jordan

5. CONTACT INFORMATION

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6. QUALIFICATIONS

- **Ph.D. in Computer Engineering / Networking + Security**   (Jan. 2002 - May 2005)
  University: New Mexico State University, Las Cruces, NM, USA.
  Advisor: Dr. Eric Johnson
  Dissertation: Military Multipath Multicast Routing Protocol

- **M.S.** in **Computer Engineering**   (Aug. 1998 – Aug. 2000)
  University: New Mexico State University, Las Cruces, NM, USA.
  Advisor: Dr. Javin Taylor
  Thesis: An Investigation of the Use of VHDL in Arithmetic Logic Design

- **B.S.** in **Electrical Engineering / Communication**   (Oct. 1984 – Oct. 1988)
  University: Mutah University, Al-Karak, Jordan

7. ACADEMIC EXPERIENCE

- Oct. 2023 – Present, Dean of Faculty of Engineering, Mutah University, Jordan.
- Nov. 2022 – Oct. 2023, Professor of Cyber Security Department, College of Computer and Information Technology, Jordan University of Science & Technology.
- July 2019 – Nov. 2022, Professor of Computer Engineering Department, College of Engineering, Mutah University, Jordan.
- Sept. 2015 – July 2019, Associate Professor, Computer Engineering Department, College of Engineering, Mutah University, Jordan.
- Sept. 2013 – Sept. 2015: Associate Professor, IT department, Rustaq College for Applied Sciences, Ministry of higher education, Oman.
- Aug. 2011 – Sept. 2013: Assistant Professor, Computer Engineering Department, College of Engineering, Mutah University, Jordan.
- Sept. 2010 – Aug. 2011: Assistant Professor of IT department, SUR College for Applied Sciences, Ministry of higher education, Oman.
- June 2006 – Aug. 2010: Assistant Professor, Computer Engineering Department, College of Engineering, Mutah University, Jordan.
- Feb. 2008 – June. 2008: Teaching (part time), The Arab Academy for Banking and Financial Sciences / Al-Karak branch, Jordan.
- Oct. 2005 – Feb. 2006: Teaching (part time), Department of Computer Engineering, Alesra University, Jordan.
- Jan. 2002- Apr. 2005: Teaching Assistant, Department of Computer and Electrical Engineering, New Mexico State University, Las Cruces, New Mexico, USA.
- Oct. 2000- Oct. 2001: Lecturer, Department of Computer Engineering, Mutah University, Karak, Jordan.
- Jan. 1999 - May 2000: Teaching Assistant, Department of Computer and Electrical Engineering, New Mexico State University, Las Cruces, New Mexico, USA.

8. ADMINISTRATIVE - ACADMIC EXPERIENCE

- Sept. 2017 – Sept. 2019: Vice Dean, Faculty of Engineering, Mutah University, Jordan.
- Sept. 2015 – Sept. 2016: Head of computer engineering department, Mutah University, Jordan.
- Sept. 2010 – Aug. 2011: Head of IT department, SUR College for Applied Sciences, Ministry of higher education, Oman.

9. NON-ACADMIC EXPERIENCE

- 2005-2006, Commander for the main workshop, Jordan Armed Forces (JAF)/ Electronic Warfare Directorate, Jordan.
- 1994-1998, Computer Engineer / Maintenance Engineer, Jordan Armed Forces (JAF)/ Electronic Warfare Directorate/Main Workshop, Jordan
- 1988-1994, Electrical Engineer / / Maintenance Engineer, Jordan Armed Forces (JAF)/ Signal Corps Directorate/ Main Workshop, Jordan.

10. TRAINING COURSES ATTENDED

Name of the course	Length & Date	Name of the company	Place of the course
PRC-104 (American HF Transceiver); operation and maintenance	Five weeks ; June, 1989	Hughes aircraft company	Fullerton, California, USA
PCT-200; universal repair and electronics; system for repair development and production of electronic assemblies	Two weeks; December, 1990	Instructor from Pace Company	Zarqa, Jordan
URC-96 (American HF Transceiver); radio operation and maintenance.	Two weeks; December 1991	Loral Terracom Company	San Diego, California, USA
Thompson-950 (French VHF Transceiver); Radio operation and maintenance.	Four weeks; March, 1993	Instructor from Thompson company	Zarqa, Jordan
Electronic warfare elementary course	Eight weeks; June 1996	Signal Core Dir.	Rawalbindi, Pakistan
Introduction to UNIX system	One week; September 1997	General computers & Electronics Co.	Amman, Jordan
Image processing training course	Four weeks; March 1998	Military Navigation school	Amman ; Jordan
Introductory SOLARIS system administrator training	Two weeks May 1998	Electronic Warfare Dir.	Amman, Jordan
Introduction to Qualnet Simulator	One week April 2004	Scalable Network Technologies	San Diego, USA
Leadership & management anti terrorism	One week November 2005	Electronic Warfare Dir.	Amman, Jordan
Cybersecurity Infrastructure Configuration - Train The Trainer course	Three Days 27-29/1/2019	Palo Alto Networks Academy	Amman, Jordan
Orientation Course	One Day 7/2/2019	Cisco Academy	Amman, Jordan
Cybersecurity Online Training Workshop	10-Days (35-hours) 20-30/9/2021	University of de-Vigo Provided by the ERASMUS+IREEDER Project	Online

11. SKILLS AND TOOLS

- Web Publishing and Online Teaching Tools (WebCT, Blackboard)
- MS-Teams

- Moodle (E-Learning System)
- Zoom
- C++
- C
- MATLAB
- SPICE
- Verilog
- VHDL
- Oracle Developer and Java
- MS System Administrator
- CISCO CCNA
- Altera Quartos II
- OPNET
- QualNet

12. RESEARCH

A. RESEARCH INTERESTS

My research interests include the following:
- Networks and Computer Security
- Cloud Computing Security
- Cryptography and Cryptographic Algorithms
- Cyber Security
- Image Encryption & Image Steganography
- Computer Networks and Distributed Systems
- Multicast Routing Protocols
- Digital Systems Design using VHDL

B. PUBLICATIONS

1) Al Jawazneh, A. and Bani Salameh, J., "**A Model for Cloud Intrusion Detection System Using Feature Selection and Decision Tree Algorithms**, "*International Journal of Scientific & Technology Research (IJSTR),* Volume 10, Issue 3, pp. 225-233, March 2021.

2) Jamal N. Bani Salameh, "**A novel Framework for Storing and Sharing Medical Information Securely over Cloud Computing Environment,**" *Jordan Journal of Electrical Engineering (JJEE)*, Volume 5, Number 3, pp. 175-190, 2019.

3) Jamal N. Bani Salameh, "**A New Approach for Securing Medical Images and Patient's Information by Using A hybrid System**," *International Journal of Computer Science and Network Security (IJCSNS)*, Volume 19, No. 4, pp. 28-39, April 2019.

4) Altarawneh M., Alqaisi A. and Bani Salamah J., "**Evaluation of Cloud Computing Platform for Image Processing Algorithms,**" *Journal of Engineering Science and Technology,* Vol. 14, No. 4, pp. 2345-2358, 2019.

5) Jamal N. Bani Salameh, Mokhled S. Al-Tarawneh, **"A Secure Exchange Technique for Secret Information and Encryption Key Using Hybrid system,"** *International Journal on Communications Antenna and Propagations (IRECAP)*, Vol. 9, No. 1, 2019.

6) Altarawneh M. and Bani Salamah J., "**E-learning Center of Excellence as A service on A private Cloud Implementation for Jordanian universities,** " *International Journal of Engineering & Technology*, Vol. 7, Issue (4), pp. 4325-4329, 2018.

7) Jamal N. Bani Salameh, The 5th International Conference on Digital Information Processing, E-Business and Cloud Computing (DIPECC2018), Avrasya University, Trabzon, Turkey, July 05-07, 2018

8) Walaa H Al-qwider, Jamal N. Bani Salameh, "**A Novel Technique for Securing Data Communication Systems by Using Cryptography and Steganography,**" *Jordanian Journal of Computers and Information Technology (JJCIT)*, Vol. 3, No. 2, pp. 110-130, August 2017.

9) Jamal N. Bani Salameh, "**An Investigation of the Use of MJEA in Image Encryption,**" *WSEAS Transactions on Computers*, Volume 15, pp. 12-23, January 2016.

10) Jamal N. Bani Salameh, " **A new Technique for Sub-Key Generation in Block Ciphers**", *World Applied Sciences Journal*, Volume 19, No. 11, pp. 1630-1639, November 2012.

11) Nidhal K. El-Omari, Jafar Ababneh, Jamal N. Bani Salameh, Abdel Rahman A. Al karabsheh, and Ali M. Al-Ibrahim, " **Innovate Text-Image Compression Technique** ", *European Journal of Scientific Research*, Volume 88, No. 4, pp. 603-616, October 2012.

12) Jamal N. Bani Salameh, " **A new Symmetric-Key Block Ciphering Algorithm**", *Middle-East Journal of Scientific Research*, Volume 12, No. 5, pp. 662-673, September 2012.

13) Jamal N. Bani Salameh, Hani Q. Al-Zoubi, Yazeed A. Al-Sbou, "**A novel Multicast Routing Protocol for Ad Hoc Networks** ", *European Journal of Scientific Research*, Volume 83, No. 4, pp. 475-492, August 2012.

14) Yazeed A. Al-Sbou, Jamal N. Bani Salameh, and Hani Q. Al-Zoubi, "**Quality of Service Measurement Using Artificial Neural Networks**", *International Review on Computers and Software*, Volume 7, No. 4, pp. 1584-1593, July 2012.

15) Jamal N. Bani Salameh, " **JEA K-128: A novel Encryption Algorithm Using VHDL**", *WSEAS Transactions on Computers*, Issue 12, Volume 8, pp.1875-1884, December 2009.

16) Jamal N. Bani Salameh, " **Military Multipath Multicast Routing Protocol** ", *Ph.D. Dissertation, New Mexico State University*, May 2005.

17) Jamal N. Bani Salameh, "**An Investigation of the Use of VHDL in Arithmetic Logic Design** ", *M.S. Thesis, New Mexico State University*, August 2000.

13. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Member of IEEE, 2002-2005
- Member of JEA (Jordan Engineers Association), 1989-present

14. PROFESSIONAL COMMITTES, ACTIVITIES & SERVICES

- Member of ABET committee, 2006-present
- Member of the following Committees at Computer Engineering Department / Mutah University:
  - ➢ Head of Higher Education Committee, 2021-present
  - ➢ Member of department council, 2006-present
  - ➢ Member of Graduation Projects Committee
  - ➢ Member of Scientific research Committee.
  - ➢ Head of Curriculum Committee

- Head and Member of the following Committees for the Faculty of Engineering at Mutah University:
  - ➢ Member of the Faculty of Engineering Council, 2009, 2011, 2013, 2017-2019
  - ➢ Member of Scientific Research Committee
  - ➢ Member of Curriculum Committee 2011, 2013, 2017-2019
  - ➢ Member of Quality Assurance Committee, 2017-2019
  - ➢ Member of Disciplining Students Committee
  - ➢ Head of Self Study Report Committee, 2017
  - ➢ Head of Strategic Plan Committee, 2017
  - ➢ Head of Higher Education Committee, 2017-2019

- Member of the following Committees at Mutah University:
  - ➢ Member of Student Disciplinary Board, 2017-2019
  - ➢ Member of Mutah University Board, 2018-2019
  - ➢ Member of Higher Education Committee for the university. 2017-2019

- Member of the following Technical Committees at Mutah University:
  - ➢ Member of Committee to provide technical study for the Tender that: supply, installation and operation for network and security equipments for computer center at Mutah University, 2010.
  - ➢ Head of technical Committee to provide full evaluation for the Tender that: supply, installation and operation for outside wireless network at Mutah University. The main objective of this committee is to ensure that the project has met all of the contracted expectations and can signed off as complete, 2016
  - ➢ Head of Committee to provide technical study for the Tender (No. 12/L/2018) that: supply, installation and operation for network devices at Mutah University.
  - ➢ Head of Committee to provide technical study for the Tender that: supply, installation and operation for Web Application Firewall (WAF) at Mutah University, Dec. 2021.

- Reviewer for the following journals:

- ➤ The Jordanian Journal of Computers and Information Technology (JJCIT). 2016-present
- ➤ Jordan Journal of Electrical Engineering (JJEE), 2016-present
- ➤ Editorial Board Member of SCIREA Journal of Computer, Science Research Association.

- Team leader for establishing a master degree program entitled "Cloud Computing Services and Security" at computer engineering department / Mutah University. This program was approved and start accepting students in 2018/2019
- Team leader for establishing a new bachelor degree program entitled "Computer Engineering / computer and network security" at computer engineering department / Mutah University. This program was approved and start accepting students in 2018/2019
- Team member for establishing a master degree program entitled "Cyber Security and Cloud Computing" at the computer engineering department / Mutah University. This program was approved and start accepting students in 2020/2021.

15. MASTER DEGREE THESIS SUPERVISION

The following is a list of the thesis that I have supervised on the level of master degree:
- A Novel Technique for Securing Data Communication Systems by Using Cryptography and Steganography, Walaa H Al-qwider, graduated 2017.
- Model for Cloud Intrusion Detection System Using Feature Selection and Decision Tree Algorithms, Athal Al Jawazneh, graduated 2020.
- A Secure Cloud-Based Framework for Electronic-Voting System in Jordan, Arwa Dmour, graduated 2021.
- A novel Graphical User Interface (Encryption / Decryption) System for Securing Data that will be Uploaded to the Cloud, Yanal Tareef, graduated June 2021.
- A Secured Smart Healthcare Monitoring Model Based on IoT-Medical Sensor over Cloud Computing Environment, Omar Al-Qawabah, graduated January, 2022

16. MASTER DEGREE THESIS EXAMINATION

- I examined more than 10 thesis as an internal examiner in Mutah University.
- I examined two thesis as an external examiner in Al-Hussein Bin Talal University.

17. TEACHING EXPERIENCE

Master Degree Level:

Courses Taught at: Mutah University / Jordan
• Cyber Data Analytics
• Big Data Analytics
• Research Methodology
• Cloud Computing Security
• Systems and Network Security
• Enterprise Systems and Network Security
Courses Taught at: Jordan University of Science & Technology / Jordan
• Advanced Computer Networks

Bachelor Degree Level:

Courses Taught at: Mutah University / Jordan
• Computer and Network Security
• Information Security
• Computer Security
• Cryptography and cryptographic algorithms
• Computer Networks
• Advanced Computer Networks
• Internetworking protocols
• Digital and Analog Communication
• Communication and Data Transmission
• Electrical circuits (1)
• Digital Systems Design
• Modern Digital Systems Design by using VHDL
• Selected Topics in Computer Engineering
• Computer skills I & computer skills II
• Communication Skills
• C++ programming
• Visual Basic
• Logic system design lab
• Computer networks lab
• Electronics lab
• Microprocessor Lab
• Computer Interface Lab

- Computer Architecture Lab
- Graduation Project (1) & (2)

Courses Taught at: New Mexico State University / USA
- Digital circuit design
- Digital circuit design lab

Courses Taught at: Isra University / Jordan
- Computer Organization and Design
- Computer Architecture
- Signals and systems

Courses Taught at: The Arab Academy For Banking and Financial Sciences / Jordan
- Computer Networks II
- Computer Security

Courses Taught at: SUR College for Applied Sciences / Oman.
- Computer security
- Network security
- Computer organization
- Software Engineering Project

Courses Taught at: Rustaq College for Applied Sciences / Oman.
- Introduction to security
- IT Fundamentals
- Introduction to computer organization

Courses Taught at: Jordan University of Science & Technology / Jordan
- Cyber Security Fundamentals
- Cryptography
- Introduction to Information Technology

18. REFERENCES

1. Prof. Mohammad S. Al-Sarayrah, Dean of Faculty of Engineering, Mutah University, m_srayreh@mutah.edu.jo , Mobile: 962797531531
2. Prof. Mokhled Suleiman, Dean of College of Graduate Studies / Mutah University, mokhled@mutah.edu.jo , Mobile: 962799717222
3. Prof. Sultan Tarawneh , Dean of Faculty of Engineering, Applied Sciences University, sultant@mutah.edu.jo, Mobile: 962795516077