

# Ahmad Bader

Assistant Professor at Jadara University

ahmad\_baderjo@yahoo.com

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## Summary

Doctor of Philosophy in Computer Systems and Networks, working as Assistant Professor at Jadara University, Information Technology College, Computer Networks Department in Jordan, and as Chief Information Officer at Healthcare Quality International in Dubai from 2007. Responsible for supervising, managing, and coordinating different aspects of the IT Enterprise projects in Healthcare Informatics in UAE, GCC region and Middle East.

From 1993 worked in different positions in several companies in IT field in Jordan and from 2000 In charge of Information Technology Management pertaining to formulating IT strategy and long-term IT planning in Jordan.

Ability to lead a team such as: provides clear direction, motivates staff, manage staff performance appropriately and fairly, and deals with possible conflicts.

Excellent in solving problems and has technical documentation skills.

Good interpersonal skills with the ability to interact with customers and colleagues in a courteous and friendly manner and to work in a multicultural environment with sensitivity and respect for diversity.

Good working knowledge in Unix OS patching, upgrade and hardening Primarily IBM AIX UNIX (with clustering), AIX UNIX Administration, troubleshooting skills for Server Hardware and peripherals, and UNIX shell scripting.

Strong Concept in implementation skills in Microsoft Windows Server, Exchange, ISA, SQL and Novell Operating Systems, System Security ,LAN ,WAN, VPN, Cisco Firewalls and Routers.

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## Experience

### **Assistant Professor at Jadara University**

October 2013 - Present (3 years 5 months)

- Instructor in the following undergraduate courses and their Laboratories:

1. Numerical Methods.
2. Electrical Circuits Analysis.
3. Signals and Systems.
4. Analog and Digital Communications.
5. Telecommunications Systems.
6. Computer Skills.
7. Digital Logic Design.
8. Data and Computer Communications.
9. Computer Networks.

10. Backbone Routing and Switching.
  11. Wireless Networks Systems.
  12. Networks Security.
  13. Network Planning, Management and Design.
  14. Operating Systems.
  15. Advanced Programming.
- Supervision of final year students over various projects in the areas of Analog and Digital communications, Multiple Access Techniques (FDMA, TDMA, CDMA), Cellular Telephony with GSM/GPRS/EDGE technologies, Data Communications and Networking.
  - Supervision of different master thesis's in the field of Mobile and Bluetooth Security, Mobile Broadcasting and Networking.
  - Development of study plans and course description for interest subjects.
  - Development of laboratories for Analog and Digital Communications, Data and Computer communications, Computer Networks and Wireless Networks.

### **CIO at Healthcare Quality International**

August 2007 - Present (9 years 7 months)

- Responsible for supervising, managing, and coordinating different aspects of the IT Enterprise projects.
- Develop, execute, and manage different computing and IT strategies of the company.
- Approving system selection, application development, system installation and implementation, programming, project management, and application support for all HQI projects as American Academy of Cosmetic Surgery Hospital, Institute of Biophysical Medicine Clinic (DHCC, Dubai, UAE), Al-Fujairah Private Hospital (Al-Fujairah, UAE), AL-Diwan Staff Clinic, Ibn-Zuhr Clinic (Oman).
- Analyse, suggest and implement IT policies for employees and the company.
- In charge of overseeing the operations and supervising the members of the IT department and monitor if they are working as per the requirements.
- Make sure that the best IT tools, software, hardware and other devices are being used for the good performance of the company.
- Make sure that all the IT strategies are developed keeping the company budget in mind.
- In charge of Information Technology department pertaining to formulating hospital IT strategy and long-term IT planning. Reports directly to Chief Executive Officer.
- Implementing and customizing Hospital Information System in all Modules and Departments for Inpatient/ Outpatient with International standards and Coding Systems as ICD-10, CPT-4 and HCPCS with HL-7 messaging support which reports to CPQ in DHCC and JCIA requirements.
- Implementing IP Telephony System including Voice Attendance System.
- Oversees troubleshooting, system back-ups, archiving and disaster recovery, and provides expert support when necessary.
- Performs maintenance of hardware, network and software system for all hospital users.
- Manage the purchasing of all software, hardware and other IT supplies.

- Ensure that Company assets are maintained responsively.
- Responsible to train the staffs in both formal and informal training programs.

### **IT Director at Al-Ahlia Commercial Centers P.S.C.**

February 2000 - August 2007 (7 years 7 months)

- In charge of Information Technology department pertaining to formulating IT strategy and long-term IT planning. Reports directly to Chief Executive Officer.
- Developed new systems in accordance with identified needs of the departments and upgrade user stations as necessary.
- Manages the purchasing of all software, hardware and other IT supplies and maintains the delivery of IT system.
- Provides support systems for Company's computer system.
- Performs daily routine such as: checking servers and application including ERP solutions with P.O.S. System.
- Approving system selection, application development, system installation and implementation, programming, project management, and application support for all the departments.
- Responsible to train the staffs in both formal and informal training programs.
- Performs maintenance of hardware, network and software system for all user stations.
- Oversees troubleshooting, system back-ups, archiving and disaster recovery, and provides expert support when necessary.
- Good working knowledge of Unix OS patching, upgrade and hardening Primarily IBM AIX UNIX (with clustering), AIX UNIX administration, troubleshooting skills for Server Hardware and peripherals, and shell scripting.

### **Founder, Owner, GM at Ahmad Bader for Computers**

January 2003 - July 2006 (3 years 7 months)

- Performs maintenance of hardware, network and software systems for all clients as MIDAS Company, Dr. Sameer Al Qawasmi Ophthalmology Clinic...etc,and implement IT infrastructure in there locations with Preventive Maintenance Contracts.
- Retail Sales for Computers ,Desktops ,Laptops ,Printers ,Peripherals ,Software Applications ,Accessories and Consumables from our Show Room at Al Ahlia Plaza Super Stores.
- Responsive to customer expectations and needs within the project requirements.
- Approving system selection, application development, system installation and implementation, programming, project management, and application support for all the Clients.
- Manages the purchasing of all software, hardware and other IT supplies and maintains the delivery of IT system.

### **Leader of Technical & Networking Department at Euro-Gulf Company (Electronics Division)**

January 1995 - February 2000 (5 years 2 months)

- Planning, organizing, directing and implementing IT project in order to provide migration and commissioning of Microsoft Systems and IT Security.
- Verifies technical drawing/specification and check for discrepancies and make sure that the project meets the deadline.
- Interact with other departments and vendors involved.
- Responsive to customer expectations and needs within the project requirements.
- Produce weekly and monthly report on project progress, solution proposals, programmed management and track to ensure that project is on time and to budget.

### **Communications & Networks Engineer at Amman Bank for Investments**

May 1994 - January 1995 (9 months)

- Gather requirements, develop and maintain document software applications or libraries for internal and external users in all bank branches.
- Perform software development duties as assigned.
- Involved in the requirement analysis, conceptive design, detailed design, implementation, system integration, testing, documentation and deployment of software system in the operational environment.
- Provides professional technical support in relation to the developed software system program during the systems maintenance.

### **Sales and Service Engineer at Silicon Valley for Computers**

August 1993 - December 1993 (5 months)

- Maintains servers and networks infrastructure, new and existing hardware and software.
- Troubleshoot hardware, software and network problems
- Provides support for customers.
- Responsible for the sales of hardware and software.
- Directly accountable in meeting sales target and marketing objectives as well as new market developments.

### **Service Engineer at National Est. for Computers**

March 1993 - September 1993 (7 months)

- Maintains new and existing hardware and software.
- Troubleshoot hardware, software and network problems
- Provides support for customers.

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## Courses

### **IT Director**

Al-Ahlia Commercial Centers P.S.C.

ISA Server 2000. (2159)

IBM AIX V4 Introduction & Administration Workshop. March 10-19, 2002

Cisco Certified Network Associate, CCNA.	February 21 - March 9, 20
Course of Oracle Data Base 70 h. (Introduction, Administration, SQL, Forms, and Reports).	July 29 - August 30, 2000
Microsoft Windows 2000 Network & Operating System(2151) Essentials.	
Implementing Microsoft Windows 2000 Professionals and Server.	(2152)
Implementing Microsoft Windows 2000 Network Infrastructure.	(2153)
Implementing Microsoft Windows 2000 Directory Services Infrastructure.	(2154)
Designing Security for Microsoft Windows 2000.	(2150)
Implementing MS Exchange 2000.	(1572)

### **Service Engineer**

National Est. for Computers

Full course in maintenance and troubleshooting of PC on both boards and components level. September 1-30, 1993

### **Leader of Technical & Networking Department**

Euro-Gulf Company (Electronics Division)

Course of PC Network & Novell software and Hardware as Installation. April 18 - May 28, 1994

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## **Publications**

### **Fragmentation of variables in Mealy automaton with coding of rows of direct structural table**

Radioelectronics and Informatics 2006 April 1, 2006

Authors: Ahmad Bader, Prof. A.A. Barkalov, Institute of Computer Engineering and Electronics , Poland, a.barkalov@iie.uz.zgora.pl, Dr. R.M. Babakov, Donetsk Institute for Artificial Intelligence, Ukraine, cpld@mail.ru

The new structure of Mealy control automaton with coding of rows of direct structural table, used principle of fragmentation of variables, is proposed. Analytical valuations of effectiveness of proposed structure of automaton are achieved, and analysis of effectiveness is done. The middle gain of hardware expenses in circuit of forming of variables is 200%.

### **Enhancing K-MEANS Algorithm with Initial Cluster Centers Derived From Data Partitioning Along The Data Axis With PCA.**

December 1, 2012

Authors: Ahmad Bader, Dr. Adnan Alrabea ,Albalqa Applied University - Jordan , adnan\_alrabea@yahoo.com, Dr. A.V.Senthilkumar ,Hindusthan College of Arts and Science , Bharathiar University- India

In this paper, we proposed a new framework for uses the first principal component generated using Principal Component Analysis (PCA) for initializing the centroid for K-Means clustering. first principal component is used for initializing the cluster centroid. Principal Components Analysis is mainly used in this paper because it reduces data dimensionality by performing a covariance analysis between factors. As such, it is suitable for data sets in multiple dimensions, it can be observed that the developed technique results in lesser number of iteration which in turn reduces the clustering time. When cluster distance is considered, the developed clustering technique results in maximum cluster distance which indicates that the proposed technique produces better accuracy for clustering. Considering all these results, the developed clustering results in better clustering result when compared to the other existing techniques. This is satisfied for all the considered dataset.

### **Modelling of Mealy Automaton with Coding of Sets of Fragment of Microoperations**

Artificial Intelligence Magazine June 13, 2006

Authors: Ahmad Bader, Prof. A.A. Barkalov, Institute of Computer Engineering, Poland, Dr. R.M. Babakov, Donetsk Institute for Artificial Intelligence, Ukraine

The approach to simulation modeling of the logical circuit of a Mealy control automaton using as a method of optimization of hardware expenses coding of sets of a fragment of micro-operations is offered. The approach consists in usage of the language of simulation of hardware VHDL and allows to receive characteristics of the circuit of an automaton at its implementation on a programmable chip. The functional circuit of the device generated automatically by resources of simulation, testifying about a logical correctness of the constructed model is obtained.

### **Research of Hardware Characteristics of the Mealy Automaton with Coding of Sets of a Fragment of Microoperations with VHDL-model**

Artificial Intelligence Magazine January 1, 2007

Authors: Ahmad Bader, Prof.Barkalov A.A., Dr.Babakov R.M.

The technique of determination of hardware expenses at realization of the logic circuit of the control automaton in basis of PLA is considered. The substantiation of a correctness of use of the given technique on realization of the circuit of the automatic device in basis of modern PLD is given. Character of the received dependencies of hardware expenses from parameters of the automatic device, similar to same dependencies for basis of PLA is put in a foundation of the substantiation. Dependencies are received with use of the developed model of the Mealy automaton in language of hardware description VHDL for modern types of PLD.

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## Skills & Expertise

**Software Development**

**Management**

**Process Improvement**

**Troubleshooting**

**Project Management**

**IT Strategy**

**Disaster Recovery**

**Consulting**  
**Healthcare Information Technology**  
**Managing IT Infrastructure**  
**EMR**  
**eHealth**  
**PACS**  
**RIS**  
**Health Insurance**  
**Solution Implementation**  
**IT Solutions**  
**Network Security**  
**Network Design**  
**Wireless Networking**  
**ICD-10**  
**HIMS**  
**CPT**  
**HCPCS**  
**EHR**  
**Leadership**  
**Healthcare Consulting**  
**System Administration**  
**Requirements Analysis**  
**IT Management**  
**Information Technology**  
**Healthcare**  
**Integration**  
**Unix**  
**Networking**  
**Informatics**  
**IT Service Management**  
**Team Leadership**  
**Information Security**  
**Project Planning**  
**Software Documentation**  
**Operating Systems**  
**ERP**  
**Servers**  
**Microsoft Technologies**  
**Enterprise Architecture**  
**IT Operations**  
**PMP**  
**Technical Support**  
**Vendor Management**

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## Education

### **Donetsk State Technical University**

Doctor of Philosophy in Engineering, Computer Systems and Networks, 2004 - 2007

Grade: A+

Activities and Societies: - Jordan Engineers Association. - International Association of Engineers. - The Society of Digital Information and Wireless Communications (SDIWC). - World Academy of Research in Science and Engineering (WARSE). - International Conference on Emerging Trends in e-Education, e-Learning, e-Management and e-Business (ICET4E 2013), Dubai, UAE, March 11 -12, 2013.

### **Tashkent, State Technical University named after Beruni – Uzbekstan**

Master, Computer Systems complexes and Network, 1990 - 1992

Grade: A+

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## Interests

International Travel, Gourmet Cooking, Swimming.

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[Contact Ahmad on LinkedIn](#)