


Abdelnour Aldraho

PhD in Network Computer Engineering

 Murzuk, Libya

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 aldreho@yahoo.com

CAREER PROFILE OVERVIEW

A dynamic, results-driven and passionate IT Educator, with extensive practical work experience in Computer Engineering, I am qualified amongst others with a **PhD in Network Computer Engineering**, a **Masters in Mobile and Distributed Networks** and a **Bachelors in Electronic Engineering**. I offer **9+ years** of work experience of which 7 years was in the capacity of a Computer Maintenance Specialist and Network Administrator and 2½ years in an IT Educator's capacity.

Since May 2017 until present, I have been in the role of a Lecturer for the subject of Computer Science and Networking at the University of Sebha in Libya. Moreover, between of July 2014 until Nov 2014 and July 2016 until Nov 2016, I had been in the role of a Lab Supervisor for the subject of Computer Networking at the University of Southern Queensland. I am presently seeking to progress towards a teaching position.

My keen interest and passion for the Education Sector had propelled me to build a long and committed career in the industry whereby I able to advocate understanding and learning whilst sharing my passion with like-minded individuals. Committed as a student-focussed educational leader to the development of students, I believe in providing the highest quality of education in an environment that is conducive to learning. In line with this, I advocate dynamic creativity in my teaching strategies and approaches.

Apart from this, my past successes in managing various projects have rendered me the capability of providing strategic leadership through facilitating and advising various IT initiatives. In this regard, I have demonstrated foresight, high analytical aptitude, critical thinking, creative problem-solving and conceptual capabilities. Additionally, I am very effective in working collaboratively, interacting closely and communicating clearly with individuals from diverse backgrounds. This, along with my refined skills in work team coordination enables me to excel in building positive relationships with multi-level stakeholders onsite and externally, as well as delivering on Management expectations.

KEY ACADEMIC TEACHING SUBJECTS & LAB SUPERVISION SPECIALISATION AREAS

- Computer Science
- Computer Network Communication
- Micro Processor
- Electronic–Digital Signal
- Electronic–Digital Circuits
- Artificial Neutral Networks

SUMMARY OF CAREER PATH TO-DATE

May 2017 -- present	Lecturer (Computer Science)	Sebha University, Libya
July 2016 – Nov 2016	Lab Supervision (Networking)	University of Southern Queensland, Australia
July 2014 – Nov 2014	Lab Supervision (Networking)	University of Southern Queensland, Australia
Jan 2007 - July 2008	Lecturer (Computer Science)	Sebha University, Libya
Dec 1999 - Dec 2006	Computer Maintenance Specialist & Network Administrator	Eni Oil Company LTD, Tripoli, Libya
Dec 1998 - May 1999	Teacher (Computer Science)	Management Institute, Mourzak, Libya

ACADEMIC QUALIFICATIONS & CREDENTIALS

Certifications	Duration	Academic Institution
Cert IV in Training and Assessment	2015 - 2016	TAFE South West Qld
PhD in Network Computer Engineering <u>Dissertation Title:</u> <i>Dynamic topologies for sustainable and energy efficient traffic routing in communication networks.</i>	2008 - 2014	University of Southern Queensland
Master of Science in Mobile & Distributed Networks <u>Key Subjects:</u> Mobile Telecommunications, Wireless Systems, Integrated network Management, Data Communication, Distributed Systems, Computer Security. <u>Dissertation Title:</u> <i>Enhancing the quality of service in the computer network</i>	2003 - 2004	Leeds Metropolitan University, UK
Bachelor of Science in Electronic Engineering <u>Key Subjects:</u> Telecommunications Principles, Electrical circuits, Microprocessors, electronics, computer networks, Programming, Statistics. <u>Dissertation Title:</u> <i>Recognize the patterns and the sound by using the artificial neural networks.</i>	1992 - 1998	Sebha University, Libya

ACADEMIC RESEARCH PROJECTS UNDERTAKEN

A. PhD Research Project on Green Networks and Dynamic Topologies

- Investigate the concept of dynamic topologies, i.e. networks that adapt their topology according to traffic volume.
- Develop mechanisms and algorithms to identify optimal topologies for given traffic loads.
- Apply the concept of dynamic topologies to IP networks by proposing a mechanism that alters network paths dynamically to enable changing topologies.

B. Masters Research Project on Quality of Service (QoS); Eni oil Co. Computer Network

- Identify the QoS parameters in different network topologies.
- Simulate the tested network to apply and measure the QoS.
- Propose and apply recommendations to improve the QoS of that network.

PUBLICATIONS

- 2012 **Aldraho, A.** and Kist, Alexander A.
Performance Investigation of Dynamic Topologies in MPLS Networks. In: International Symposium on Communications and Information Technologies (ISCIT)2012, Australia
- 2012 **Aldraho, A.** and Kist, Alexander A.
Enabling Energy Efficient and Resilient Networks using Dynamic Topologies. In: The Second IFIP Conference on Sustainable Internet and ICT for Sustainability (IFIP 2012), Italy, Pisa.
- 2011 **Aldraho, A.** and Kist, A.A.
Enabling Dynamic Topologies in Communication Networks. In: 2011 Australasian Telecommunication Networks and Applications Conference (ATNAC 2011), 2011, Australia, Melbourne.
- 2011 Kist, A. A. and **Aldraho, A.**
Dynamic topologies for sustainable and energy efficient traffic routing. Computer Networks, 55 (9). pp. 22712288. ISSN 13891286.

2010 **Aldraho, A.** and Kist, A.A.
Enhanced heuristics to reduce power consumption of networks using weight setting. In: 2010 Southern Region Engineering Conference (SREC2010), 1112 Nov 2010, Toowoomba, Australia.

2010 **Aldraho, A.** and Kist, A.A.
Heuristics for dynamic topologies to reduce power consumption of networks. In: 2010 Australasian Telecommunication Networks and Applications Conference (ATNAC 2010) , 31 Oct 03 Nov 2010, Auckland, New Zealand.

KEY COMPETENCIES, SKILLS & ATTRIBUTES

<p>Teaching Competencies</p>	<ul style="list-style-type: none"> ▪ Extensive knowledge and well developed understanding of Computer Technology theories and ability to incorporate these into practices from my direct industry experiences. ▪ Highly refined Teaching, Coaching and Mentoring Skills. ▪ Strict observation of professional Code of Ethics. ▪ Able to recruit, induct, train, assess and develop staff to meet internal system guidelines, with a consultative, collaborative leadership style and dynamic interpersonal ability. ▪ Ability to access learning and to identifying gaps. ▪ Demonstrated ability to influence and negotiate strategic outcomes. ▪ Able to set and conduct assessments with students and their field placement supervisors. ▪ Experienced at Project-managing, lecturing, training and coaching tertiary students in the Higher-education sector. ▪ Maintains professional and technical knowledge by attending educational workshops; reviewing professional publications; establishing personal networks; participating in professional societies. ▪ Utilization of various Learning Management System (LMS) software (including Moodle and Blackboard) to prepare lesson-plans, teach and prepare reports. 								
<p>Technical Competencies (Explicit Knowledge)</p>	<table border="1"> <tr> <td data-bbox="395 1160 630 1234"> <p>Operating Systems</p> </td> <td data-bbox="638 1160 1477 1234"> <ul style="list-style-type: none"> ▪ Windows XP/XP SP2/NT/Server, SQL Server Microsoft and Pervasive, Exchange Server, DOS 6.22, Netware 4.11, Linux and MAC OSX. </td> </tr> <tr> <td data-bbox="395 1245 630 1328"> <p>Programming Languages</p> </td> <td data-bbox="638 1245 1477 1328"> <ul style="list-style-type: none"> ▪ Java Script, Visual Basic, C++ and Python </td> </tr> <tr> <td data-bbox="395 1339 630 1462"> <p>Software</p> </td> <td data-bbox="638 1339 1477 1462"> <ul style="list-style-type: none"> ▪ MS Office Suite, Outlook, Matlab, FrontPage, WordPerfect, CorelDraw, PC Anywhere, Remote Desktop, GoToMyPc, LogMeIn, Attachmate, Reflections, Seagate Backup Exec 10, and Lotus Notes R5. </td> </tr> <tr> <td data-bbox="395 1473 630 2076"> <p>Networking</p> </td> <td data-bbox="638 1473 1477 2076"> <ul style="list-style-type: none"> ▪ Configuration of LAN/MAN/WAN, TCP/IP, DNS, WINS, DHCP, SNMP, CSU/DSU and fibre connections. ▪ Upgrading Switches and Routers ▪ Protocols: RIP, EIGRP, OSPF, IS-IS, BGP, PLS ▪ Configuration of security features in network devices ▪ Configuration of various Cisco and Juniper routers ▪ Cisco Series Routers(2600/2800/2900/3600) ▪ Juniper (MX series, M10i) ▪ Configuration of voice networks and VoIP through Packet Tracer ▪ Network and routing optimization ▪ Network Modeling and simulation tool: OPNET and NS2 ▪ Gateway redundancy protocols (HSRP, GLBP and VRRP) ▪ IP VPN technologies including IPsec VPN, Site-to-to site VPN or GRE based VPN ▪ 3 Layer switching with MPLS (Multi protocol label switching) in combination with transport media, different routing protocols. ▪ VMware technologies ▪ Cloud Computing </td> </tr> </table>	<p>Operating Systems</p>	<ul style="list-style-type: none"> ▪ Windows XP/XP SP2/NT/Server, SQL Server Microsoft and Pervasive, Exchange Server, DOS 6.22, Netware 4.11, Linux and MAC OSX. 	<p>Programming Languages</p>	<ul style="list-style-type: none"> ▪ Java Script, Visual Basic, C++ and Python 	<p>Software</p>	<ul style="list-style-type: none"> ▪ MS Office Suite, Outlook, Matlab, FrontPage, WordPerfect, CorelDraw, PC Anywhere, Remote Desktop, GoToMyPc, LogMeIn, Attachmate, Reflections, Seagate Backup Exec 10, and Lotus Notes R5. 	<p>Networking</p>	<ul style="list-style-type: none"> ▪ Configuration of LAN/MAN/WAN, TCP/IP, DNS, WINS, DHCP, SNMP, CSU/DSU and fibre connections. ▪ Upgrading Switches and Routers ▪ Protocols: RIP, EIGRP, OSPF, IS-IS, BGP, PLS ▪ Configuration of security features in network devices ▪ Configuration of various Cisco and Juniper routers ▪ Cisco Series Routers(2600/2800/2900/3600) ▪ Juniper (MX series, M10i) ▪ Configuration of voice networks and VoIP through Packet Tracer ▪ Network and routing optimization ▪ Network Modeling and simulation tool: OPNET and NS2 ▪ Gateway redundancy protocols (HSRP, GLBP and VRRP) ▪ IP VPN technologies including IPsec VPN, Site-to-to site VPN or GRE based VPN ▪ 3 Layer switching with MPLS (Multi protocol label switching) in combination with transport media, different routing protocols. ▪ VMware technologies ▪ Cloud Computing
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	Database	<ul style="list-style-type: none"> SQL and MS-Access
	Hardware Devises	<ul style="list-style-type: none"> Dell and Toshiba Certified Product and System Services, Compaq Server and Desktop Products, Intel Processors, 3Com, Cisco and Bay Networking Products. Switches, Routers, WAPS, VOIP, Firewalls
Interpersonal & Communication Skills		<ul style="list-style-type: none"> Demonstrated proficiencies in oral and written communication skills. Able to interact well and liaise with individuals of diverse backgrounds; including clients, internal work groups, management & external contractors/vendors and system providers.
Personal Attributes		<ul style="list-style-type: none"> Naturally empathetic yet professional; demonstrating refined level of professional tact and discretion when handling sensitive or confidential matters. Demonstrated ability to operate effectively with a high level of autonomy. Non-consensus thinking skills and Intellectual curiosity. Dedicated to financial integrity and cost-effectiveness. Creative thinker; inspired and innovative. Constantly working to empower others whilst respecting differences. Ability to exercise flexibility and take initiatives. Strict observance of Workplace Health & Safety polices and the ability to implement and monitor workplace safety practices and measures

SUMMARY OF WORK EXPERIENCES

Duration	Organisation	Position Held	Key Accountabilities
May 2017- Present	Sebha University, Libya	Lecturer (Computer Science & Networking)	<p>Teaching on subjects that include but are not limited to the following:</p> <ul style="list-style-type: none"> Data Structures in Java; C#.Net, Python and other programming languages. Embedded systems/computer organization Operating Systems PC Hardware and/or Software Installation Network and System Administration Database Administration Cloud Computing Information Security
July 2016 – Nov 2016 And July 2014 – Nov 2014	University of Southern Queensland	Lab Supervision (Networking)	<ul style="list-style-type: none"> Provide ongoing training and supervision to student lab assistants regarding computer software, hardware, and lab procedures. Maintain supplies for lab equipment (e.g., paper, printer toner) and maintain working order of lab equipment. Assists student and faculty/staff users regarding the use of supported software applications and hardware. Assist departmental staff regarding office computer use/problems. Coordinate and/or perform software installations, diagnostics, and repairs. Write technical documentation for software and hardware use (how to upload files to the internet, etc.).

Jan 2007 - July 2008	Sebha University, Libya	Lecturer (Computer Science)	Teaching on subjects that include the following: <ul style="list-style-type: none">• Programming in C++• Embedded systems/computer organization• Operating Systems• Information Storage Management• Client-side and/or Server-side Web Development• PC Hardware and/or Software Installation• Network and System Administration• Database Administration• Information Security
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<p>Dec 1999 - Dec 2006</p>	<p>Eni Oil Company LTD, Tripoli, Libya</p>	<p>Computer Maintenance Specialist & Network Administrator</p>	<ul style="list-style-type: none"> ▪ Developing, maintaining and upgrading the company's LAN. ▪ To design the upgrading and development of network and system services configuration to achieve operational readiness of network systems. ▪ To undertake research and development on intricate system designs along with architecture specifications, data models and diagrams in contribution towards the development, configuration and integration of computer systems. ▪ To undertake research and development as well as to manage the Company's network infrastructure. ▪ To assess and recommend improvements to network operations and integrated hardware, software, communications and operating systems as well as to provide specialist skills in supporting and troubleshooting network problems and emergencies. ▪ To install, configure and maintain new/upgraded networks, software database applications, servers and workstations. Also, to provide network programming in support of specific business needs and requirements. ▪ To prepare and maintain procedures and documentation for network inventory, and record diagnosis and resolution of network faults, enhancements and modifications to networks, and maintenance instructions. ▪ Installation and basic support of all network software and hardware infrastructure and devices ▪ Researching and sourcing best suppliers and negotiating services and Service Level Agreements. ▪ Key project undertaking: <ul style="list-style-type: none"> ∞ The upgrading and installation of a computer network in one of the Company's key oil fields. ∞ Installation of video conference systems between headquarters in Tripoli and the oil fields.
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REFERENCES

Professional and Character References shall be provided upon request.