RAED IBRAHIM ZAHALQA

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OBJECTIVE: A Full-time administrative position in Computer Engineering and/or IT. To be a part of a fast-paced environment that will allow me to utilize my knowledge and experience for professional and personal growth.

EDUCATION: **M.Sc**. in Computer Engineering from the **Arab Academy for Science and Technology**, Alexandria, Egypt, Concentration: Parallel Processing and Computer Networks. My thesis work was about the reliable router for a grid of processors. Graduated in 2000.

B.Sc. In Computer Engineering from the **Technical University of Budapest**, Budapest, Hungary. The graduation project was about Image processing at the pixel level using a workstation that was built for that purpose at the Hungarian **Central Research Institute for Physics** "**Központi Fizikai Kutat Intézet KFKI**". Graduated in 1994.

EXPERIENCE:

Feb2001-Present **Al-Quds Open University-Palestine**, Jenin, WestBank, Palestine.

Position: Lecturer.

Currently, I am a lecturer at Al-Quds Open University "QOU", Department of Computer Science.

https://adminportal.qou.edu/employeeCvPage.qou?userId=ridris

Courses taught by me:

Graphics & Design Courses

Multimedia	1265
Digital Multimedia	5286
Interior Design Concepts	5483
Design and production of educational digital media	5381
An Introduction to Graphic Design	1437
Web Pages Design Technologies.	1266
Computer applications "Software Packages".	1382

Programming Languages

Data processing - C	1187
Programming 1 - C++	1291
Programming 2 - Java	1295
Special topics - Python	1391

Other Courses

Introduction to Computer	0102
Fundamentals of Electronic Circuits	1160
English Language for Technology	1210
Digital Design	1290
Systems analysis and design	1380

Using PC in administration	1386
E-Commerce	1477
Distributed Systems	1479
Artificial Intelligence and Expert Systems	1484
Computer Networks	1486
Software Engineering	1494
Computer Graphics	1495
Graduation Project 1 – For ITC	1497
Graduation Project 2 – For ITC	1498
Graduation Project – For CIS	1499

Feb2001-Present   **Al-Quds Open University-Palestine**, **Continuing Education and Community Service Program**, Jenin, WestBank, Palestine.
Position: Trainer.
- WebPages Design and Implementation courses instructor.
- Computer Networks "LAN" Design and Implementation courses instructor.
- PHP courses instructor.

Jun1997-Jul2000   **INTECH Intelligent Technology**, Alexandria, Egypt.
Position: Engineer.
The Scope of work concerned the following areas:
- Assembling new PCs.
- Dealing with hardware and software problems "Technical Support".
- Computer network planning and building (LAN, WAN).
- Internet Web Pages Design and Implementation.
        Address: 12, Ibrahim Sharief St.
            Mustafa Kamel,
            Alexandria, Egypt.

Oct1995-Apr1997   **PIPECO for Industry and Trading Plastics**, Cairo, Egypt.
Position: Engineer.
Responsibilities included the help desk, and maintaining the computer-controlled equipment of the factory, and I was involved in the design of digital cards for some of the equipment.
        Address: 25 (A) Al-Obur Buildings,
            Second Stage, Salah Salem,
            Cairo, Egypt.

VOLUNTEER EXPERIENCE:
Jan2005-Apr2007   **Al-Quds Open University Employee's Syndicate**, Jenin, WestBank, Palestine.
Position: Chairman.
This syndicate aims to protect the employee's rights and privileges, to represent them in front of the university's administration, and to present their problems and demands to the university's administration and the Ministry of Education and Higher Education.

COMPUTER SKILLS:	Graphics, Video & Sound	Level
	Adobe PhotoShop 2023	Expert
	Adobe Photoshop Elements 2023	Expert
	Adobe Lightroom Classic 2023	Expert
	Adobe Illustrator 2023	Expert
	Adobe Premiere Pro 2023	Expert
	Adobe Premiere Elements 2023	Expert
	Adobe After Effects 2023	Expert
	Adobe Animate 2023	Expert
	Adobe Audition 2023	Expert
	CorelDRAW Graphics Suite 2022	Expert
	Corel – Video Studio Pro 2022	Expert
	Corel PaintShop Pro 2023	Expert

Programming Languages	Level
C++	Expert
Java	Expert
JavaScript	Expert
PHP	Expert
Prolog	Expert
Pascal	Expert
VB.NET	Intermediate
SQL	Expert

Design	Level
AutoCAD	Expert
Google SketchUp	Expert
3D Max	Intermediate
Maya	Intermediate
Proteus Design Suite	Expert

Operating Systems	Level
Windows	Expert
Android	Expert
Unix	Intermediate
macOS	Intermediate
iOS	Intermediate

Other Necessary Skills	Level
MS Office	Expert
Open Office	Expert
MS Visio	Expert
& A lot More	Expert

ATTENDED COURSES:

Attended Microsoft courses:
- Networking Essentials.
- WindowsNT4 Administration.
- WindowsNT4 Core Technology.

Attended Sun courses:
- Sun Certified Programmer for Java Platform.
- Sun Certified Developer for Java Platform.

Attended course in "Developing methods for Co-Design with FPGA.
Attended course, Technology Entrepreneurship – Theory to Practice.

LANGUAGES: Arabic–Mother Language.
English–Fluently written and spoken.

REFERENCES:
- Prof. Dr. Magdy Saeb
  Arab Academy for Science and Technology
  Alexandria-Egypt
  E-Mail**:** msaeb@hotmail.com.   www.aast.edu
- Dr. Osama Mohamed Badawy
  Arab Academy for Science and Technology
  Alexandria-Egypt
  E-Mail**:** obadawy@aast.edu.   www.aast.edu
- Prof. Dr. Mohammad Hashem, Brigadier General
  President of Info. Tech. Center, Air Defense, Egyptian Army.
  Part-time lecturer, Arab Academy for Science and Technology
  Alexandria-Egypt

INTERESTS: Reading, Computers, Electronics, Photography, Graphics, Internet, Carpentry.

ADDITIONAL INFORMATION:

B.Sc. Thesis Work Abstract:
In my B. Sc thesis work the following tasks were investigated and solved:

1. A brief overview of image processing methods and algorithms, especially pixel-level algorithms with special emphasis on execution speed.
2. Brief description of the ARGUS image processing workstation and its use for quality control in some industrial applications.
3. Investigation of selected image processing algorithms for parallelization, discussion of the criteria of parallel execution on various hardware processing structures, i.e. synchronous/ asynchronous control, fine coarse grain parallel processing arrays.
4. Application of the selected parallel algorithms to process images and evaluation of the results of experiments with images.

M.Sc Thesis Work Abstract
The grid interconnecting various processing elements in a parallel architecture appreciably influences the cost and performance of such a system. Major difficulties that can arise in such systems are message deadlock, livelock, or starvation.

This work provides the foundations for the implementation of a wormhole fault-tolerant adaptive router for two-dimensional rectangular grids. It demonstrates that the adoption of virtual channels or lanes eliminates the possibility of message deadlock.

The work discusses a collection of routing algorithms for two-dimensional grid-structured parallel architectures. Through a detailed set of simulations, the work provides a basis for selecting one of these algorithms.

Employing a CAD workstation for field programmable gate array technology (FPGA), a partial hardware implementation of the router is achieved.

Published Paper:
Conference: ICCTA'99, 9th International Conference on Computer Theory and Applications. 28-30 August 1999, Alexandria, Egypt

Paper's Title: A new routing strategy for massively parallel processing systems.

Paper's Abstract: Interconnected Networks of processors are most important in massively parallel processing systems since machines with a single processor have limited computing capabilities regardless of the technology behind them. Routers are the main element of such Interconnected Networks; in fact, they might be considered a network of routers. In this paper, a survey of some routing algorithms for massively parallel computers is presented. These algorithms are studied according to certain criteria. A new routing algorithm is developed and compared with the existing routing algorithm. Finally, a simulation is done and a conclusion is driven.