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Muhammad Y. Mahmoud

Education

1995 – Present

King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia

- Received M.S. degree from the College of Computer Sciences and Engineering, Department of Computer Engineering, June 2004.
- Graduated from the College of Computer Sciences and Engineering, Department of Computer Engineering, May 2000.
- GPA of 3.8 on 4.0 scale.
- Ranked on the top 2% of class.

Awards received

- The highest plaque of honor for graduating with a first honor from the rector of KFUPM, May 2000.
- Award of recognition from IEEE-Saudi Arabia for "Outstanding Academic Achievement" on IEEE Technical Exchange Meeting, April 18-19, 2000.
- Award from the rector of KFUPM as an honor student of the Computer Engineering Department on the Information Exchange Day, May 5, 1998.

Computer Skills

- Environments / OS:

  DOS, MS Windows family.
  Unix and Linux.

- Programming and other tools:

  C++, Visual Basic, Fortran, Haskell, and Assembly.
  SQL and database systems.
  Matlab, Statistica, and OPNET

- Hardware tools:

  VHDL programming.
  Experience in Printed Circuited Board (PCB) design, fabrication and testing.
  Experience in PC assembling, upgrading and maintenance.
  Experience in configuring, micro code updating of IBM routers switches and hops

Research and Projects

- Working on designing fast modulo multipliers 2000-present.
- Worked on a project to study the complexity of VLSI interconnection networks chips (k-array n-cube) and propose a new measure for it Sept. - Oct. 2000.

- Worked on a project of designing and implementing a whole system for access control using smart cards (both hardware and software levels), Jan.-May 2000.

Publications

- M. Mahmoud and A. Amin, "An asynchronous Modulo Multiplier for Cryptosystems," *2nd IEEE-GCC Conf. Exh.* Manama, Kingdom of Bahrain, pp. 435-438, Nov. 23-25, 2004.

Activities

- Student member of the Institute of Electrical and Electronics Engineers (IEEE)

- Student member of the Computer and communication Societies.

- Member of System and Computer Club at KFUPM.

- Was a member of a group that established Orientation Club (Preparatory Year Club).

Work experience

Jul. 2000 – 2004

King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia.

Working as a Graduate Assistant while continuing for MS degree in Computer Engineering. Responsibilities include:
- Assisting in teaching courses.
- Instructing Assembly Programming Lab.
- Instructing Digital Design Lab.
- Developing FPGA based Lab for Digital Design Course.
- Digital Design (FPGA) **Lab coordinator**.

Summer 1999

Saudi Business Machines LTD ,Jeddah, Saudi Arabia.

Worked at the Product and Support Services Department PSS as a summer trainee. I have configured (with an engineer and another trainee) a complete WAN for NISSAN that connects 21 branches in Saudi Arabia. I got experienced in routers, leased lined modems configurations.

Volunteer experience

Jan.-April 1994

King Abdul-Aziz University, Jeddah, Saudi Arabia.

Worked in Main computer Operation room. Dealt with different kinds of mainframes like IBM MVS-ESA and IBM VM-ESA.

Languages

- Floating Arabic reading, writing and speaking skills.
- Good English reading, writing and speaking skills.

Personal Information

- Saudi Citizen.
- Egyptian mother nationality.
- Born in Jeddah, Saudi Arabia on November 14, 1975.
- Married and have three daughters.

December 2004