

AHMAD SALMAN

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OBJECTIVE

Seeking career-related experience in computer engineering. Special interest in computer hardware, embedded systems and networking.

Professional Summary

- A System Administrator, with a proven strong team work and communication skills through two years and half of practical experience in Systems Administration. And lately in the implementation and design of embedded systems on microcontrollers. Proven excellent skills.

Education

Master Degree in Computer Engineering, Spring 2009
George Mason University, GPA 3.56

Projects:

- Implemented Grain cipher for FPGA using Xilinx ISE tools ciphering/deciphering process was simulated using Modelsim.
- Implemented RSA cipher using Montgomery multipliers.
- Simulated the breaking of the Enigma machine code.

B.Sc. Computer Engineering, July 2002
University of Arab Academy for Science and Technology

Senior Design project:

- Designed and implemented a NIC (network interface card).
- Implemented a 4-bit Microprocessor using Xilinx foundation tools consisting of ALU, CU and registers.

Languages: Arabic (Mother Tongue), English (Fluent) and French (Fair).

Technical Certifications

- Cisco Certified Network Associate, **(CCNA)**.
- VLSI- Based Communication Application Design, **(Mentor Graphics)**.

Computer and Programming Skills

Networks:

Administering and implement Network Structure, Hardware Maintenance, Cisco Routers, Cisco and 3com Switches Series, VPN, TCP/IP.

Programming Languages:

C, C++, HTML, Assembly Language, JAVA, PASCAL, SQL, V.BASIC.

Programming Concept:

Object Oriented Programming, Windows Programming, Multi-Thread programming.

Programming Tools and IDEs:

- **Good knowledge:** Turbo C, Turbo C++ compiler, Xilinx ISE foundation 9.1, Aldec Active-HDL 7.2, Oracle SQL* Plus, Microsoft Visual Studio.
- **Familiar with:** Borland C++ Builder, Visual Studio .NET2003, Macromedia Flash, MatLab 5.3, Macromedia Dreamweaver, Front page, Adobe Photo Shop.

Operating Systems:

Windows 2000 advanced Server, XP professional, XP home, 2003 server, Vista, Linux

Hardware Circuits Design and Simulation Tools:

VLSI: Xilinx FPGA, IC station, PCB, VHDL and Verilog.

Work Experience**Duke University, Durham, USA****from June 2008 to April 2008****Instructor**

- Designing and Teaching the Cryptography class for Duke TIP program.
- Working with gifted high school students.
- Assisting in teaching the Robotics class for Duke TIP Program.

Micronics, Cairo, Egypt**from June 2006 to April 2007****Embedded systems Designer and Programmer**

- Designing C codes for special purpose microcontrollers and embedded systems.
- Working on 8051 microcontroller family using Keil and Raid tools.
- Designing PCB using Altera tool.
- Programming of LED screens with GSM modem using AT Commands.

Air Defense Forces, Cairo, Egypt**from October 2003 to April 2006**

- Serving in the military in the Air Defense forces in a rocket launcher battalion with a degree of a first lieutenant.

Self Employed**from January 2004 to August 2005**

- Implementation and installation of LAN in several apartments in a building and providing high speed internet sharing.
- Setting up a network including all hardware/software installation for Camelot Company.
- Installation, maintenance, and upgrade of PC software applications, utilities, and operating systems.
- Assist with installation and maintenance of new and existing WAN and LAN connections.

Arab Academy For Science And Technology, Alexandria, Egypt**from June 2003 to August 2003****Network Administrator Assistant**

- Setup and maintain basic network operations, including assembly of network hardware, and provide assistance to the AAST team.
- 3com and Cisco routers configurations and troubleshooting.
- Setting up Cisco switches and VLANs configuration.

Skills

- Excellent interpersonal skills and customer service oriented.
- Demonstrate a strong Sense of duty, responsibility, discipline and attention to detail.
- Exceptional time management, organization, verbal and written skills.
- Excellent troubleshooting and problem solving skills with little supervision.
- Process approach to continuous improvement.