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## CURRICULUM VITAE

To pursue my professional career in a dynamic environment related broadly to network domain, specifically addressing cyber security, network optimization and planning wherein I can broaden my horizon by complementing my theoretical knowledge with practical experience.

### EDUCATION

*King Saud University, Riyadh, Kingdom Of Saudi Arabia.*

**MS (Data Communications & Networking)**, CGPA 4.63/5.00, 2009 – Till date.

*Bahria Univeristy, Islamabad, Pakistan.*

**BCE\* (Computer Engineering)**, CGPA 3.53/4.00, 2008.

PEC No. : COMP/5270

**FYP:** FPGA Implementation of Wi-Fi Transceiver.

### EXPERIENCE

Almost **2** years of IT experience as Research Assistant, LAB Engineer & Network Engineer, this involves Planning, Designing, Implementation and troubleshooting of Networks.

*King Saud University, Riyadh, Saudi Arabia (2008- Till date)*

Working at College of Computer & Information Science accomplishing the following Responsibilities:

- R & D in Networking (High Speed Networks).
- OPNET Administration (Server Administration & License Management).
- Working on Simulations of MPLS on OPNET (Optimal Disjoint Paths).
- Conducted Undergraduate Tutorial for the course “Security and Internet Protocols”.

*Bahria University, Islamabad, Pakistan (Sept 2008 - Nov 2008)*

Worked as **Lab Engineer & Teaching Assistant**. (Digital Logic Design, Networking, Neural Network & Artificial Intelligence)

**Main Responsibilities:**

- Conducting Tutorials & Lab Sessions.
- Conducting Quizzes and Assignments.

*DSI Solutions Incorporated, Islamabad, Pakistan (July 2007 – Sept 2007)*

Worked as **Network Administrator** considering the following responsibilities,

- System Administration (2000 Server).
- FPGA Implementation of WCDMA Transceiver.

*“PTCL” & “EVAAMP & SAANGA”, Islamabad, Pakistan (3 months internship at both places)*

Worked as a **Network Assistant**.

- PTCL Services.
- Network maintenance.
- Switching System, EWSD Features, EFAN.
- Worked on Ufone’s project.

## RESEARCH AND ACADEMIC PROJECTS

- Conference paper accepted in WORLDCOMP’10, International Conference on Internet Computing (ICOMP’10) for publication ICM5049 “**Establishment of Optimal Disjoint Paths in MPLS Networks**”.
- Conducted survey on the **routing algorithms involved in routing wireless sensor networks**.
- Proposed a feasibility study addressing **security measures in campus wide wireless networks**.
- Conducted a literature review on **internal architecture** for the Cell processor found in the PS3.
- Implementation of Random Number Generator (**Combined LCG’s**) and testing their reliability using different testing techniques.
- **OPNET** Simulation of **MPLS** for QoS, Traffic Engineering and Differentiated Services.
- Designed queue optimization techniques for **minimizing queuing delay**.
- Performance Enhancement of **Large Scale Networks with Heterogeneous Traffic** using OPNET.
- Implementation of a **Beowulf cluster** in a Distributed Computing Environment.
- Designed a **Traffic light system** in Verilog (HDL).
- Designed **UART** in Verilog (HDL).
- **Student’s Info. System** implemented in C++.
- Designed an **Obstacle avoiding robot** (IR sensing, ATMEL 89C2051 Microcontroller).
- Implemented **Black -jack Cards game** with client-server architecture (Distributed Computing).
- **Personnel Fitness application** designed in Prolog (Artificial intelligence).
- Designed **Circuit layout of a 4-bit ALU** in LASI.

## PROFESSIONAL AFFILIATIONS & QUALIFICATIONS

- Focal Person for ECI (for Saudi Arabia) organizing different events e.g. CLC 2009.
- Member of BACSAP (Bahrian’s Association of computer science and professionals) for event management.
- Microsoft student partner for organizing events e.g. Imagine cup 2008, S2B program.
- Certificate – CCNA TRAINING.

## TECHNICAL SKILLS

- **TECH Tools** OPNET Modeler, SynaptiCAD (Verilogger Pro), Xilinx ISE6, RIMS Roboworks, Assembly language with Keil Compiler, ASIC Design & Circuit Layout tool LASI, Matlab, IT GURU (OPNET Simulator), Turbo C, C++, Visual C++, S.Q.L., HTML.
- **Operating Systems** Windows98/95, Dos 6.22, Windows NT 4.0 (Server/Workstation) Windows2000 (Professional/Server/Advanced Server), Windows XP (Professional/Home), Red hat Linux 9.0.
- **Data Base** MS-SQLServer7.0, MS-SQL, SERVER 2000, MS-Access 97/2000.
- **Hardware** IBM Compatible PC's including different other hardware platform.

## INTERESTS

- Network Security.
- Mobile Communication.
- Network Essentials.
- Data Communication and networking.
- Management Information Systems.

## REFERNCES

References shall be furnished on demand.