

# Aamer Shah

## PERSONAL INFORMATION

Permanent Address: House # 1172, street-1, G-9/2, Islamabad  
Present Address: Room # 54, Hostel 3, GIKI Topi, District Swabi NWFP, Pakistan  
Phone No: 92 – 300 – 9176346  
E-mail: [u2002002@giki.edu.pk](mailto:u2002002@giki.edu.pk) , [aamershahjee@yahoo.com](mailto:aamershahjee@yahoo.com)  
Date of Birth: May 23<sup>rd</sup>, 1984

## EDUCATIONAL HISTORY

**2002 – till present** Undergraduate student of 4<sup>th</sup> year (8<sup>th</sup> semester) Computer Systems Engineering, **GIK Institute** of Engineering Sciences & Technology, Topi, Pakistan.  
**CGPA: 3.74, Last Semester GPA: 3.69, Class Rank: 2<sup>nd</sup>**  
**2000 – 2002** F-Sc Pre-Engineering, Cadet College Kohat (Marks 915/1100, A-1 grade, 83.18%)

## INTERSHIPS

- Worked on a **distributed simulation** for **Pakistan Navy** made by Data Communication and Control, Karachi. Worked on module 'Visual Federate'. Designed and integrated it into the system. Used RTI for inter-node communication.
- **Process engineering** for automating core-processes of GIKI. Worked in collaboration with **Ultimus Pakistan**. Implemented the **course registration system**. Participated in process discovery.
- Part of 3 member research team on feasibility of implementing a **distributed multimedia communication** system for a **UK based company**. Worked under the Dean FCSE

## CERTIFICATION

**QUALCOMM®** and **PAKCDMA Forum** certification for CDMA2000 1x Release 0, CDMA2000 1x RC1 and RC2, and CDMA2000 Network Planning

## SELECTED PROJECTS

- **Routing in Wireless Sensor Networks (Final Year Project)**, GRAdient Broadcast, Network Simulator.
- **Alife**, Java, Artificial Intelligence, Genetic Algorithm, learning brain.
- **Elevator Control System**, ASIC, FPGA, Xilinx Spartran 2, Model Sim, generic algorithm.
- **Linux FTP Client**, sockets, recursive directory traversing, active mode.
- **Course Management Software**, n-tier, MySQL, PHP, apache, HTML, CSS, Linux.
- **Video Authentication through Watermarking**, matlab, fragile watermark, four techniques.
- **Path finding Robot on a grid**, 8052 family controller programmed in C++, IR sensors.
- **LAN Download Manager**, JAVA, CIFS, multithreading, mirrors support.
- **Fibonacci Heap Implementation**, C++, comparison with Binary Heap (linked list & array based).
- **Vector Graphics Editor**, VC++ (MFC), Data structures, OOP (Inheritance, Polymorphism).

## SKILLS

- **Platforms:** Windows/Linux (System Administration and Development)
- **Programming Languages:** C/C++ (4 years), VC++ (MFC), JAVA (3 years), C# (1 year), Linux Shell programming, Python, PHP, Prolog.
- **Technologies:** OpenGL, Matlab, XML, ModelSim 5, Xilinx Spartran 2.
- **Databases:** MySQL, MS SQL Server, Oracle 8i, MS Access.
- **Software:** OPNET IT Guru, Ethereal, Ultimus BPM Suite, Rational Rose, MS Visio, MS Project, MS Office, Macromedia Flash MX, Ulead Media Studio, Ulead Photo Impact.

## SOCIETIES

- Member **ACM** GIKI Student Chapter, **IEE** GIKI Student Chapter.
- Member GIKI Science Society, GIK Environmental & Awareness Society, **GIKI Web-Team**.
- Member **GIKI Speed Programming** Team.
- General Secretary Project Topi, a student volunteer society helping poor students in pursuing education.

## COCURRICULAR ACTIVITIES

- Member of Organizing Committee **Softcom 03**, **Softcom 04**, **Softcom 05** (All Pakistan Software Competition).
- **Head** of Organizing Team of **Speed Programming** for **Softcom 05**.
- Represented GIKI at **Softec 04** (All Pakistan), **Softec 05** (All Asia) Software Competition (Speed Programming).
- Member of Organizing Committee **APEC 2006** (All Pakistan Engineering Conference).
- Member of Organizing Committee **GikiTech 2004** (All Pakistan Technical Paper Competition).
- Member of Organizing Committee All Pakistan Science Fair 2004, 2005 and 2006.
- Organized speed programming competitions at GIKI (2004, 2005).

## AWARDS AND ACHIEVEMENTS

- **Represented Pakistan** in an international speed programming competition, held at **Auckland, New Zealand**, at the occasion of **SEARC Computer Convention 2002**.
- Got **third position** in All-Pakistan Speed Programming Competition 2001 held simultaneously at Karachi, Lahore, Islamabad and Peshawar, organized by **Computer Society of Pakistan** (CSP).
- On **Dean's Honor Roll** List in 1<sup>st</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> semester.
- Stood **third** in F.Sc. Pre-Engineering (Kohat Board – 2002).
- In charge of Computer Club for the years 2000-2001 and 2001-2002, Cadet College Kohat.
- Was awarded Best Computer Programmer Medal twice, on the Parents Day (CCK – 2002) and (CCK – 2001).

# ABDUL WAHAB BHATTI

Present Address:  
Faculty of Computer Engineering, GIK Institute  
Topi 23460, District Swabi, NWFP, Pakistan.  
Hostel No. 2, Room 55  
Email: u2002006@giki.edu.pk

Permanent Address:  
House no. 180, Street no. 2  
Chah Bohar Wala  
Multan Cantt.  
PH: 0300-5368229

## OBJECTIVE

To establish my self as an Engineer in a company with a motivating, competitive and learning environment where my technical and managerial expertise can be put to use.

## EDUCATION

2002-2006	GRADUATE STUDENT IN COMPUTER SYSTEM ENGINEERING Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi.
2000-2002	F. Sc. (PRE-ENGINEERING) Army Public College (Peshawar)

## INTERNSHIP

Summer Internship 2005 at SOFTECH SYSTEMS LTD. Lahore  
Worked on Java Beans and ActiveX in Oracle forms 6i environment

## SENIOR DESIGN PROJECT

**Bandwidth Management (QoS) Using Fuzzy Logic**

The project is research based and the scope is to use fuzzy logic algorithms in standard bandwidth management techniques to amplify their effect.

## SEMESTER PROJECTS

- **Online PC Games Shopping**, PHP 4.1, MySQL.
- **Intelligent Spam recognition**, C++.
- **FTP Client**, Linux, Socket Programming, C.
- **Image Editing Software**, MATLAB 7.0, filters, editing, GUI.
- **Audio Home System**, 82C51 microcontrollers.
- **Graphical User Interface**, C++, OOP (Inheritance, Polymorphism etc).
- **Implementation of SAP (simple as possible computer)**.
- **Skip List Implementation**, C++, comparison with Binary Trees.
- **Dictionary**, VC++ (MFC), Data structures.
- **Graphics Based Calculator**, C++, GUI in console.

## TECHNICAL SKILLS

- **LANGUAGES/TOOLS:** C++, VC++(MFC), Rational Rose, MATLAB, Prolog, Macromedia Flash, Adobe Photoshop, Combustion, OPNET IT GURU, Microsoft Access, MS Project, MS Visio, Pro Desktop, IRC Scripting, MS SQL, MY SQL, Easy PHP
- Windows Administration, Network Administration
- Technical Report Writing, Group Work and Communication Skills

## SOCIETIES

- Executive member of **AIAA GIKI CHAPTER**
- ACM Volunteer on SOFTCOM 2004 and 2005 at GIKI

## ACHIEVEMENTS

- First Prize Award in Science Competition Edwards College Peshawar (2000)
- Third Prize Award in Science Competition Edwards College Peshawar (2001)
- Won FIFA at gaming event S`n`P 2004 In GIKI
- Runners Up In WARCRAFT3 (DOTA) at gaming event S`n`P 2005 In GIKI
- Stood 3<sup>rd</sup> In College In Intermediate
- Designed AIAA GIKI Chapter Website On Macromedia Flash

# AHMED SAJJAD

CB-675, Sherzaman, Tulsa Rd, Lalazar, Rawalpindi, Pakistan

PH(Mob): +92-300-5546710

Email [ahmedsajjad@gmail.com](mailto:ahmedsajjad@gmail.com)

## OBJECTIVE

To programmatically refine my development skills over my base in Computer Engineering and to get acquainted with the latest developments and 'Tricks of Trade' in contemporary Industry

## EDUCATION

2002 – present	BS IN COMPUTER SYSTEMS ENGINEERING, GIK Institute
2000-2002	<b>A-Levels (Pre-Engineering &amp; Pre-Medical), Roots High School, 3A's &amp; 1B</b>
1997-2000	<b>O'Levels</b> , Cadet College Hasanabdal

## WORK EXPERIENCE

*Internship in NCR Global Consulting Center  
2005*

*Summer*

- Developed an Online Testing System for prospective employees (JSP/MySQL/JS)
- Responsible for Re-Engineering of the PTCL billing code.

## SPECIALIZATION

- Software Engineering.
- Design Pattern Utilization in Object Oriented Software Development.
- Parallel and Distributed Computing.

## SENIOR DESIGN PROJECT

*Visual Sign Language Interpreter (VSLI)*

Development of a Sign Language Interpreter using Computer based Video Inputs to help people with speech and hearing impairments communicate.

## SEMESTER PROJECTS

Course	Project Title	Dev. Environment
Data Structures	Optimum Path Selection in a network	C++
Image Processing	Data Concealment & recovery in an image	MATLAB
Microprocessor Interfacing	Design & Development of a Marquee Display using 89C52 Microcontroller	Hardwiring, Assembly Language, C51
Engineering Economy	Project Economic Feasibility Evaluator	Visual Basic
Artificial Intelligence	Human Face Detection	MATLAB

## TECHNICAL SKILLS

**Programming Languages:** C++, VB, java, VC++, Prolog, SQL, Matlab, JSP.

**Databases:** MS SQL, MS Access, TomCat.

**Software Packages :** Rational Rose, MS Visio, ProDesktop, Dreamweaver, Photoshop.

**Other Industrial Tools:** OPNet IT Guru, Jtest

## ACHIEVEMENTS/CO-CURRICULAR ACTIVITIES

- 2<sup>nd</sup> best English Debater, Cadet College Hasanabdal.
- Best Debater (English, GIK Institute 2005).
- Member of Winning Interbatch Parliamentary and Declamatory Team, GIK Institute.
- Represented Cadet College Hasanabdal at the Common Wealth Essay Writing Competition.
- Head Boy & Gold Medalist (Academic Excellence), Roots High School.
- 2 Time Best Actor Nominee in Intra-GIKI drama competitions (2004 & 2005).
- Represented GIK at the Rafi Peer Amateur Theatre Festival & UET Amateur Theatre Festival.
- Executive Member, Team Project Topi (A voluntary student Social Welfare Organization)
- Member, Media Club, Batch Basketball team (GIK Institute).

ADDRESS	A-1 Married Doctors residences		Ali Osman Hameed
	Shaikh Zayed Hospital Lahore • Pakistan Phone Residence: 92-42-5863978 Phone Mobile: 92-0301-8442002 Email: a.osmanhameed@gmail.com		
OBJECTIVE	TO COMPLEMENT THE ENGINEERING AND MANAGEMENT, SKILLS AND KNOWLEDGE ACQUIRED AT THE UNIVERSITY LEVEL BY DEVELOPMENT IN A PROFESSIONAL ENVIRONMENT		
EDUCATION	Ghulam Ishaq Khan Institute of Engineering Science & Technology • Pakistan		
	Bachelor of Computer Systems Engineering 2002 • 2006		
	Lahore Grammar School • Lahore • Pakistan		
	Advance Levels (Cambridge Board)	2000 • 2002	
	Ordinary Levels (Cambridge Board)	1997 • 2000 SCHOOL DISTINCTION IN ORDINARY LEVELS	
WORK EXPERIENCE	A SIX WEEK INTERNSHIP AT NESTLE PAKISTAN LTD SUPPLY CHAIN: APPLICATION OF MANAGEMENT AND STATISTICAL SKILLS AT THE NATIONAL DISTRIBUTION CENTRE AND ATTRIBUTING THEM BY TECHNICAL ANALYSIS OF COLLECTED DATA.		
TECHNICAL SKILLS/EXPERIENCE	Computing Environment Skills:		
	<ul style="list-style-type: none"><li>▪ C/C++</li><li>▪ VISUAL C/BASIC</li><li>▪ MICROSOFT OFFICE</li><li>▪ MICROSOFT VISIO</li><li>▪ MICROSOFT PROJECT</li></ul>	<ul style="list-style-type: none"><li>▪ MATLAB</li><li>▪ PROLOG</li><li>▪ PRO DESKTOP</li><li>▪ WINDOWS 3.2/95/98/ME/XP(PRO)</li><li>▪ LINUX (TEXT AND GUI BASED)</li></ul>	
	Project Work:		
	<ul style="list-style-type: none"><li>▪ FINAL YEAR PROJECT: IMPLEMENTATION OF A VISUAL SIGN LANGUAGE RECOGNITION/TRASLATION SYSTEM</li><li>▪ LANGUAGE AND COMPILATION TECHNIQUES: IMPLEMENTATION OF A LEXICAL ANALYSER AND PARSER</li><li>▪ DIGITAL IMAGE PROCESSING: OBJECT TRACKING IN A VIDEO</li><li>▪ MICROPROCESSOR INTERFACING: HARDWARE IMPLEMENTATION OF A ROBOTIC MOUSE</li><li>▪ COMPUTER ARCHITECTURE: HARDWARE IMPLEMENTATION OF A 'SIMPLE AS POSSIBLE' COMPUTER</li><li>▪ DATA STRUCTURES: IMPLEMENTING SEARCHING BY MEANS OF SPLAY TREES</li><li>▪ OBJECT ORIENTED PROGRAMMING: IMPLEMENTATION OF A GRAPHICAL USER INTERFACE</li><li>▪ ADVANCE PROGRAMMING: FILE SCHEDULER</li><li>▪ DEVELOPMENT OF WEBSITE FOR SHAIKH ZAYED POSTGRADUATE MEDICAL INSTITUTE , LAHORE</li></ul>		
CO-CURRICULA'S	<ul style="list-style-type: none"><li>▪ TEAM MEMBER FOR ORGANIZING ACM SOFTCOM 2004</li><li>▪ MEMBER OF THE UNO ONLINE VOLUNTEERS ORGANIZATION</li><li>▪ MEMBER OF TEAM PROJECT TOPI (A YOUTH WELFARE SOCIETY)</li><li>▪ PARTICIPANT OF AN AWARD WINNING DRAMA AT GIK INSTITUTE DRAMA COMPETITION</li><li>▪ MANAGEMENT AND ORGANIZATION OF WELCOME FOR BATCH OF 2008</li><li>▪ MANAGEMENT AND ORGANIZATION OF A CONCERT AT GIK INSTITUTE</li><li>▪ MEMBER OF UNIVERSITY FOOTBALL TEAM</li></ul>		

# Ali Zeeshan Ijaz

## PERSONAL INFORMATION

Permanent Address: House 75, Lane 3, Army Officers Colony, Morgah, Rawalpindi, Pakistan.  
Present Address: Room # 94, Hostel 2, GIKI Topi, District Swabi NWFP, Pakistan.  
Phone No: 92 – 51 – 5487785  
E-mail: u2002021@giki.edu.pk, ali\_zeeshan\_ijaz@hotmail.com

## Final Year Project

**Routing in Wireless Sensor Networks:** Simulation of a routing protocol for Wireless Sensor Networks using NS-2 (C++/OTcl).

## OBJECTIVE

**To pursue my career in a technically challenging area as a software engineer and to gain excellence and expertise in my work field.**

## EDUCATIONAL HISTORY

**2002 – till present** Bachelor of Science: Computer Systems Engineering,  
GIK Institute of Engineering Sciences & Technology, Topi, Pakistan.  
**CGPA:** 3.43, **Class Rank:** 4<sup>th</sup>  
Expected Graduation in May 2006.  
**2000 – 2002** A-levels from Beaconhouse Margalla Campus, Islamabad, **Result:** 3As (Maths, Physics, Chemistry)

## INTERNSHIP

Internee at **Ultimus Pakistan** for 8 Weeks:

Designed and developed an application using ASP.NET and Microsoft SQL 2000, which provided a web based system used in evaluating the prioritization of processes of a company using Ultimus BPM Studio ®. The application has the functionality of dynamic calculations, additions, deletions, sorting and printing.

## SEMESTER PROJECTS

- **Online PC Games Shopping**, PHP 4.1, MySQL.
- **Implementation of TSP using Genetic Algorithms, ANT Colony Optimization and Kohanon Self-Organizing Maps**, C++, Matlab 7.0
- **FTP Client**, Linux, Socket Programming, C.
- **Image Editing Software**, MATLAB 7.0, filters, editing, GUI.
- **IR Remote Control**, 8051 Microcontroller, Pinnacle 8052 Assembler
- **Graphical User Interface**, C++, OOP (Inheritance, Polymorphism etc).
- **Skip List Implementation**, C++, comparison with Binary Trees.
- **Dictionary**, VC++ (MFC), Data structures.
- **Typing Tutor**, C++, GUI in console

## SKILLS

- Programming Languages: C, C++, VC++ (MFC), C#, Prolog, Lisp, Matlab 7.0, SQL, PHP 4.1 and ASP.NET 1.1
- Linux System Programming in C, Linux Shell Programming, Socket Programming in Linux.
- Networking Applications: NS-2, OPNet IT Guru 9.1 (Network design and analysis software), Ethereal.
- Database Applications: Oracle, MS Access, MS SQL Server, MySQL.
- Software Modeling: Rational Rose, MS Project, MS Visio.
- Windows 2000/2003 server and Linux System Administration.
- Windows and Linux Security Auditing.
- Presentation Skills, Technical Report and Letter Writing.
- Used to group work, good communication skills.

## SOCIETIES

- Executive member **ACM** GIKI Student Chapter.
- Executive member **WebTeam**.

## COCURRICULAR ACTIVITIES

- Executive Member of Organizing Committee **Softcom 2003** and **Softcom 2004**, All Pakistan Software, Multimedia and Quiz Competition (one of the largest software competition in Pakistan).
- Organized a Quiz competition at GIKI (2005).
- Executive Member of Organizing Committee of **Softcom 2005**. Head of Quiz Competition setup team and participated in managing the overall event.

## AWARDS AND ACHIEVEMENTS

- Microsoft Certified Professional (2001)
- Been on Dean Honor List (SGPA > 3.5) for 4<sup>th</sup> and 5<sup>th</sup> semester.

# ASAD AHMED KHATTAK

Village WazirAbad, P. O. Dargai, Malakand Agency, NWFP, Pakistan.

Phone: 92-932-332259      Mobile: +92-300-5038424, +92-345-5287669

Email: asadakhattak@gmail.com

## OBJECTIVE

To get an opportunity to improve my existing technical and management skills and to develop new ones by working as a part of a team of talented people in a competitive and challenging environment.

## EDUCATION

2002-2006	BS in COMPUTER SYSTEM ENGINEERING Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi. CGPA: 3.22/4.00	
2000-2002	F. Sc. (PRE-ENGINEERING) A1 Grade : 886/1100 Marks	Cadet College Razmak
1998-2000	S.S.C. A1 Grade : 770/850 Marks	Cadet College Razmak

## FINAL YEAR PROJECT

**AUDIO VISUAL SPEECH RECOGNITION SYSTEM:** Developed a system that will take an audio and a video signal of speech as input and will convert the speech into text. The development is done using MATLAB 6.5. Intel's AVCSR Toolkit is used for mouth tracking. Cambridge HMM Toolkit (HTK) is used for designing the pattern classifier.

## INTERNSHIP (2004): ULTIMUS PAKISTAN.

9 weeks internship in collaboration with Ultimus Pakistan on Process Engineering for Automating core Processes of GIK Institute using MS SQL Server 2000, Ultimus BPM Suite, MS AD Server and ASP.NET. Implemented the course registration system. Established Active directory control and participated in process discovery.

## INTERNSHIP (2005): DATA COMMUNICATION & CONTROL (PVT) LTD, KARACHI

8 Weeks Internship: Worked on a project of Pakistan Navy called ASTT (Action Speed Tactical Trainer) using Microsoft Visual C++ (.Net Framework). ASTT is a Distributed Simulation and Trainer of the tactical and strategic activities of Pakistan Navy. Worked on C3I (Command Communication & Control) Module of the ASTT.

## SEMESTER PROJECTS

Course	Project Title	Dev. Environment
Digital Image Processing	Video Authentication through Digital Water Marking	MATLAB 6.5
Intensive Programming	Vector Graphics Editor	VC++ (MFC)
CCNet	Linux FTP Client	Socket Programming in Linux
Artificial Intelligence	Tic-Tac-Toe Game	Prolog
Databases I	Course Management Software	PHP, MySQL
Microprocessor Interfacing	Digital Telephone Exchange using C8051 MC	Assembly Language, C++
Data Structures & Algorithms	Run Time Evaluation of a Condition	C++
OO Programming	Cricket Tournament Scheduler and Record Manager	C++
Introduction to Computing	Graphical Calculator	C++

## TECHNICAL SKILLS

- LANGUAGES/TOOLS:** C++, Visual C++, MySQL, PHP, Rational Rose, MATLAB, Prolog, Ultimus BPM Studio, MS Access, MS Visio, OPNet IT Guru, Ethereal, ProDesktop.
- PLATFORMS:** Windows, Linux

## ACHIEVEMENTS

- President's Gold Medal for Distinction in S.S.C.
- National Talent Award for Distinction in F. Sc (Pre-Engineering).
- Participated in 2<sup>nd</sup> National Summer Camp August 2001 for Talented Science Students from all over the country.
- Appeared on the Dean's Honor Roll in the 3<sup>rd</sup> Semester (BS Degree).

## CO-CURRICULAR ACTIVITIES

- Best Compare of the College for the year 2001.
- Executive Member of the College Editorial Board.
- Represented College twice in All Pakistan Debates Contest.

# ASIF KHAN

**Permanent Address:** House No. 263, Sector-1, Phase-1, Street-4, KDA, Kohat

**Present Address:** Reg No. 2002029, Hostel 3, Room 33, GIK Institute Topi

**Email:** [asifkhan.sb@gmail.com](mailto:asifkhan.sb@gmail.com)

**PH:** 03009154322/0922513809

## OBJECTIVE

To work in a dynamic and competitive environment where I may apply and enhance my technical and managerial skills

## EXPERIENCE

Internship (Summer 2005):

- **United Nations Development Program, Head Office Islamabad**
  - Design and Development of Vehicle Management Database
  - Improvement of Office Documents Record Database
- **Pakistan Telecommunication Company Limited, OMC Peshawar**
  - Study of Digital Switching Center and its controlling modules
  - Development of an office record database

## EDUCATION

- **BACHELOR IN COMPUTER SYSTEM ENGINEERING [2002-2006]**  
Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi  
**GPA:** 2.92/4.00
- **F. Sc. (PRE-ENGINEERING) [2000-2002]**  
Cadet College Kohat  
**Marks:** 916/1100

## SENIOR DESIGN PROJECT

**Design and Development of distributed router for Bluetooth Scatternet**

- Literature Survey of proposed algorithms for Scatternet formation
- Implementation using BlueZ Bluetooth Protocol stack for Linux

## SEMESTER PROJECTS

- **Database:** Online movies database using MS-SQL Server and PHP  
Equipment Record Database for Faculty of Electronic Engineering
- **OO Programming:** Two player chess game in C++
- **CCNet:** FTP Client for Linux based Systems
- **Artificial Intelligence:** Text to Speech converter using neural networks
- **Image Processing:** Subtraction of moving objects from video and watermarking the original data
- **Intensive Programming:** Vector Graphics Editor using VC++. NET
- **Computer Architecture:** Implementation of Simple As Possible Computer
- **Microprocessor Interfacing:** Server for data exchange between multiple PCs over serial ports using 8052 microcontroller
- **ASIC Design:** Design and implementation of 16 Bit Pipelined RISC Processor
- **Technical writing:** Feasibility Report of setting up a milk plant at Topi

## TECHNICAL SKILLS

- **Languages/Tools:** C/C++, VC++/VB.NET, SQL, Java, Rational Rose, MATLAB, Oracle, MS Project, PHP-MySQL
- **Operating System:** DOS, Windows, Linux/Unix
- **Multimedia/Web Development:** HTML, Flash MX, Dream Weaver, Adobe Photoshop, MS FrontPage
- **Network:** OPNet IT Guru, Socket Programming, Windows/Linux System Administration

## ACHIEVEMENTS/EXTRA CURRICULAR ACTIVITIES

- Governor's **Silver Medal** for securing 2<sup>nd</sup> position in F. Sc (Pre-Engineering)
- Awarded **Silver Medal** and **Merit Scholarship** by BISE (Kohat)
- **Certified by Qualcomm** (and PakCDMA) for passing the Qualcomm exam
- Executive member of **Media Club** at GIKI
- Member of **Science Club** at Cadet College Kohat
- **Member Organizing Team** of ACM All Pakistan Speed Programming and Multimedia competition.

# ATHAR RASOOL SHAH

## EDUCATION

2002 – 2006	BS in Computer System Engineering Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi. SGPA 3.42/4.00, CGPA: 3.20/4.00
2000 - 2002	<b>Higher Senior Cambridge</b> in Mathematics (A), Chemistry (B), Physics (B). Beaconhouse Margalla Campus, Islamabad.

## WORK EXPERIENCE

<b>Internship in Carrier Telephone Industries (CTI), Islamabad</b>	<b>Summer 2004</b>
<ul style="list-style-type: none"><li>■ Up gradation of present networking setup in the Research &amp; Development Department</li><li>■ Maintenance and up gradation of server and client machines, including Hardware and Software.</li><li>■ Study and research on 'Software Documentation', along with a comprehensive report.</li></ul>	
<b>Internship in Business Strategies Group LLC (BSG), Dubai</b>	<b>Summer 2005</b>
<ul style="list-style-type: none"><li>■ Developed a Web-based 'Online Project Management System' for the company to help them organize their projects efficiently and accurately. The project was developed in ASP.NET with Microsoft SQL Server running at the back-end.</li></ul>	

## SEMESTER PROJECTS

Course	Project Title	Dev. Environment
Data Structures	Polynomial Equation Calculator	C++
Digital Image Processing	Data Concealment (Hiding) software	MATLAB
Signals and Systems	Convolution performing tool	MATLAB
Microprocessor Interfacing	Electronic Scoreboard (interfaced with PC)	C++, Assembly Lang.
OO Programming	Engineering Economy Software	C++, Rational Rose
Intensive Programming	Car Parking Software (Simulation)	Microsoft Visual C++
Databases 1	Online Mess Billing System for GIKI	SQL & PHP
CCNet	FTP Directory Copy for LINUX	C
Artificial Intelligence	Human Face Detection	MATLAB
Artificial Neural Networks	Data Compression using BPN	MATLAB

## FINAL YEAR PROJECT

### **Visual Sign Language Interpreter (VSLI)**

Designed a Sign Language Interpreter using Computer based Video to help the people with speech and hearing impairments. The system acts as a one-way interpreter by translating human sign language into English language.

## COMPUTER & OTHER SKILLS

- **Operating Systems** : Linux, Microsoft Windows 98,2000,XP
- **Programming** : C/C++/Visual C++, C#, Java, Prolog, OpenGL, MATLAB, Socket Programming
- **Databases** : MS SQL Server 2000, MS Access, Apache & IIS Server (Setup & Configuration)
- **Network Applications**: OPNet IT Guru 9.1, Ethereal
- **Software Packages** : Rational Rose, MS Visio, PTC ProDesktop, Macromedia Dreamweaver & Fireworks, Adobe Photoshop
- **Other Skills** : Effective presentation & communication skills, Technical Report Writing

## ACHIEVEMENTS & EXTRA CURRICULAR ACTIVITIES

- Highest marks in Mathematics, O-levels (97%)
- Won best artist award in school for 4 consecutive years
- Member of GIKI Cricket team and Senior Member of GIKI Cricket Council (GCC)
- Nominated for playing best music in All Pak Drama Competition 2004 held at Al-Hamra, Lahore
- Participated in GIKI Drama Competition, 2004.



# AYESHA INAM

## Permanent Address:

House # 816, street # 13, G-11/1, Islamabad.

Phone: 051-2211020, 0300-9709079

E-mail: [u2002032@giki.edu.pk](mailto:u2002032@giki.edu.pk)  
[ayesha\\_inam@hotmail.com](mailto:ayesha_inam@hotmail.com)

## Objective:

To contribute in the growth and vision of a dynamic corporation while enhancing my technical and managerial skills.

## Education:

- **Present:** 8<sup>th</sup> semester of B.S. Computer System Engineering at Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi.  
CGPA: 3.30/4.00
- **H.S.S.C:** Pre-Engineering (2000-2002) Federal Government College for women  
F-7/2- Islamabad. Score: 914/1100
- **S.S.C:** (1998-2000) Islamabad Model College for Girls F-10/2, Islamabad.  
Score: 719/850

## Experience:

- **Alcatel Pakistan Limited:** Training on SAP R/3 ERP system and integration testing of Alcatel 1000 E10 digital exchange using Alcatel specific software. Training on initialization, power testing, logic & subscriber card testing with the Alcatel digital subscriber access units CSNMM/MM2P and assisted in defining new quality manual.
- **Ultimus Pakistan:** Worked as an internee in integration testing department of Ultimus Pakistan. Learning of **Enterprise Resource Planning (ERP)** software. Training on different modules of SAP R/3 (systems, applications and products in data processing).

## Technical Skills:

- **Languages:** C++, Prolog, VC++, Linux, C#, ASP.net, Lisp.
- **Tools:** Rational Rose, MATLAB, MS SQL Server, Oracle 8i, OPNet IT Guru 9.1, MS Access, Pro-Desktop, Ethereal, OpenCV, OpenGL.
- **Platforms:** DOS, Red Hat Linux, Server 2003.

## Final Year Project:

- **Remote System Administration via PDA:** Designing and Implementation of a new stand alone application for third generation of mobiles. The application provides a service for a mobile device such as a PDA that could be used to operate a computer system remotely.

## Semester Projects

- **Compilation Techniques:** Implementation of lexical analyzer and parser.
- **Computer Communication & Networking:** Intelligent version of FTP server in Linux.
- **Artificial Intelligence:** Implementation of intelligent game using alpha-beta pruning.
- **Database:** Online Bookshop using ASP.net using ASP.net & C#.
- **Digital Image Processing:** Answer Sheet Evaluation System coded in MATLAB.
- **Microprocessor Interfacing:** Digital Clock and calendar using 8051 Microcontroller.
- **Object Oriented Programming:** Auto-banking software coded in C++ and implementation of its design in Rational Rose.
- **Computer Architecture:** Implementation of "Simple as Possible Computer (SAP)".
- **Data Structures:** File Indexing using Binary Trees in C++.
- **Intensive Programming:** Factory Management Software using Visual C++.
- **Introduction to Computers:** Typing Tutor using C++.

## Achievements:

- Awarded **Dean's Honor List** for getting distinction in two semesters.
- Awarded **Federal Board Scholarship** for intermediate result.

## Co-Curricular Activities:

- Executive member of **GIKI Science Society**.
- Executive member of **Women Engineering Society**.

# Faheem Ahmed Mughal

## PERSONAL INFORMATION

Permanent Address: 369/D2 Wapda Town Lahore.  
Present Address: Room # 67, Hostel 3, GIKI Topi, District Swabi NWFP, Pakistan  
Phone No: 92 – 0300 – 4104865, 92 – 42 – 5187213  
E-mail: [faheem@gmail.com](mailto:faheem@gmail.com)

## OBJECTIVE

Looking for a job in an organization with a learning and competitive environment to improve and enhance my technical and managerial skills.

## EDUCATIONAL HISTORY

**2002 – till present** Undergraduate student of Computer Systems Engineering - 8<sup>th</sup> semester  
GIK Institute of Engineering Sciences & Technology, Topi, Pakistan.  
**2000 – 2002** Intermediate from Government College University (GC), Lahore.  
**1997 – 2000** Matriculation from Army Burn Hall College For Boys, Abbottabad.

## Internships

**Process engineering** for automating core-processes of GIKI. Worked in collaboration with **Ultimus Pakistan**. Implemented the **course registration system**. Established Active directory control and participated in process discovery. (graded as **second** among nine internees)

**Tools & technologies:** MS AD Server, MS SQL Server 2000, Ultimus BPM Suite, HTML, JScript, ASP.NET

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Designed and implemented **support applications** for an underdevelopment industry automation solution at **Intech Process Automation**, Pakistan. Researched and reverse engineered FireFox browser, to make a small customized browser for the company.

**Tools & technologies:** MS VB.NET, C/C++, XML, DOM, COM, XPCOM, JScript

## Engineering and Research Projects

- Implemented **WIKI Troubleshooter**, community's input based troubleshooting expert system in VB, ASP, MSSQL SERVER
- Implemented **JPEG Compression Algorithm** using Matlab 7.0
- Developed a **Voice-enabled Home automation system** using 8051 microcontroller
- Implemented an **automated FTP client** for Linux based systems
- Implemented **Graphical Economic Calculator** with complete functionality in C# winning **best course project**
- Implemented **Monopoly Game** using C# following OOP concepts
- **Researched** and Implemented **Skip Lists** data structure using Visual C++ and analyzed efficiency
- Developed a two player **scrabble** with dictionary support in VisualC 6.0 (MFC)
- Designed an **optimum network** using OPNET IT Guru (Ac. Edition)

## SKILLS

- **Administration:** Windows/Linux system administration, Active Directory, network administration, OPEN IT GURU
- **Programming:** GW/Q/Quick/V-Basic, VB.NET, x86& Motorola Assembly, C++, VC++(MFC), C#, Matlab, Prolog, COM, XPCOM, Linux Shell and system programming, mIRC scripting
- **Web Programming:** HTML, ASP.NET, JScript, Macromedia Dreamweaver (3 and above), IIS, Apache, XML, DOM
- **Databases:** PL/SQL, MS Access, MS SQL, MySQL, Oracle
- Ultimus BPM Suite, MS Visio, MS Project, MS Office, MS Publisher, Ulead Media Studio, Adobe Photoshop, Pro-desktop
- Presentation Skills, Technical Report and Letter Writing, Communication skills, Self-motivation, Self learning
- Experienced in working and leading groups for semester projects and society work.

## SOCIETIES

- .resnet (750+ hosts educational Network) Network Administrator
- Treasurer of NETRONiX (Society for managing and improving .resnet)
- Executive Member ACM GIKI Chapter
- Executive Member AIAA GIKI Chapter, GC Computer Club, ABHC Computer Club

## COCURRICULAR ACTIVITIES

- Part of team responsible for conducting three SoftComs (ACM GIKI Student Chapter's All Pakistan Software, Speed, Multimedia and Quiz Competition)
- Organized a first ever all Pakistan e-gaming competition (ügX - über.gamesX)
- Organized three local e-gaming competitions (S'n'P – Shut up 'n' Play)
- Network Administration at GIK Institute Students' Hostels providing Routing, DNS, E-Mail, Sharing, Web-hosting, IRC, Firewall, Web-proxy over LAN and dialup connected services to 750+ hosts using multi-platform servers

## AWARDS AND ACHIEVEMENTS

- Represented GIK Institute in Softec and Nascon 2005 for warcraft3 Competition
- Won AgeofEmpires2 at S'n'P e-gaming competition 2004 and was runners up for Warcraft3:DotA at S'n'P 2005
- Third in Inter-House Quiz competition
- Won Chess Championship 2002 in GC Lahore
- Got selected to assist teachers in CS101(Fall 2003) and CS102 Labs (Spring 2004 and Spring 2005)
- Appointed Secretary ABHC Computer Club (during Matriculation)

# Gul-e-Saman

Email: gulesaman@hotmail.com, u2002051@giki.edu.pk

Phone No: 091-5861834 Mobile No.03009365148

Permanent Address: House No. 31, sector F-3, phase 6, Hayatabad, Peshawar

## Objective

I aspire to fuse academic knowledge with practical experience by contributing constructively in a professional environment while enhancing my engineering and interpersonal skills.

## Education

2002-2006	<b>BS IN COMPUTER SYSTEMS ENGINEERING</b> <b>Ghulam Ishaq Khan Institute of Engineering Sciences &amp; Technology, Topi.</b> GPA: 2.50/4.00
2000-2002	<b>Advanced (A) levels</b> The City School, Quetta
1998-2000	<b>Ordinary (O) levels</b> St. Josephs Convent School, Quetta

## Experience

<b>National Database and Registration Authority</b>	<b>8 weeks</b>	<b>Internship summer 2005</b>
<ul style="list-style-type: none"> <li>Made the user manual for their reporting system</li> <li>NADRA's telephone directory(Website)</li> </ul>		
<b>IT PROMOTERS, Peshawar</b>	<b>4 weeks</b>	<b>Internship summer 2003</b>
Made the user manuals of some projects and tested them. <ul style="list-style-type: none"> <li>Hyundai Frontier Motors</li> <li>Toyota Frontier Motors</li> <li>Alkhair traders Peshawar</li> </ul>		

## Senior Design Project

**Visual Sign Language Interpreter:** Interpreting sign language(for the deaf and dumb) to natural language

## Semester Projects

Course	Project Title	Development Environment
Design Patterns	Design Patterns in the .NET framework (Term Paper)	
Software engineering 2	Online Library management system	Rational Rose
Databases I	Simulating An Email Server	VB .NET
Artificial Intelligence	Recognition of Handwritten Numeric Character using Multilayer Back Propagation Networks	MATLAB
Digital Image Processing	Answer Sheet Evaluation System	MATLAB
OO Programming	LAN voice messenger	JBuilder
Data structures and Algorithms	OS Task Scheduler	C++

## Technical Skills

**Programming Languages:** C++, Visual C++, VB, C#, Prolog , SQL, oracle, ASP .Net, VB.Net,LISP,OpenGL

**Modeling Techniques** :UML, Rational Rose, MS Visio, MS Project

**Application Packages & SDKs:**MS Office

**Tools:** Matlab, Pro Desktop

**Operating Systems** : Red Hat LINUX, Mandrake, Windows

## Achievements

- Awarded Merit scholarships by the Government of Balochistan
- Awarded best computing shield, The City School Quetta campus
- Captain of the winning team at the inter house Parliamentary Style Debates, The City School Quetta campus
- Participated and won many debates and declamation contests

## Co-Curricular Activities

- Vice President of The Women Engineers Society
- Head printshop (Literary & Debating Society)
- Head Exhibition and Lodging (Association for Computing Machinery)
- Executive Member of the Literary & Debating Society
- Executive Member of the Association for Computing Machinery (GIKI chapter)

# Hashim Ali

**Permanent Address:** G49, Lane # 5, Sher Zaman Colony, Tulsa Road, Lalazar, Rawalpindi, Pakistan.  
**Phone:** +92-300-5513901 **Email:** Hashim\_GIKI@hotmail.com

## OBJECTIVE

Work in a dynamic and creative environment with a team of skilled and motivated professionals, so I can gain valuable professional experience as well as exploit my potential to the fullest.

## EDUCATION

### **GIK Institute of Engineering Sciences and Technology, Topi, Pakistan**

BS – Computer System Engineering (Expected graduation in May 2006) **CGPA** 3.32/4.00 (7sems)

### **F.G. Sir Syed College Rawalpindi, Pakistan**

Higher Secondary School Certificate (2002)

**Grade A** (816/1100)

### **P.A.F. Cadet College Sargodha, Pakistan**

Secondary School Certificate (2000)

**Grade A** (676/850)

## WORK EXPERIENCE

### **International Labour Organisation**

SUMMER INTERNSHIP: 13<sup>th</sup> Jun – 19<sup>th</sup> Aug 2005

- Design and implementation of MS Access (MS Jet SQL) based system.
- ASP.NET (VC.NET)/MS SQL server based system for comprehensive tracking of employees.

## TECHNICAL SKILLS

- **Programming:** C/C++, VC++, VB, VB.NET, ASP.NET, SQL, Prolog, Linux system programming in C, LINUX socket programming, Linux scripting, OpenGL
- **Programming Platforms:** Dos, Windows, Linux
- **Operating Systems:** Windows (98,2000, XP, Server 2003), Linux(Red Hat 9.0, Suse 10)
- **Application Packages:** MS Office, MS Visio, MS Project, MS SQL Server, MYSQL, Oracle, Rational Rose, Macromedia Flash MX, Mathworks MATLAB7, OPNet IT Guru 9.1, Ethereal, PTC ProDESKTOP 2001
- Courses in Communication Skills, Technical Report Writing, Engineering Economy, Industrial Management, Operations Management and Total Quality Management

## PROJECTS

- **Lip Synchronization with an audio stream** as Final Year Project
- Implementation of a **Student Transcript Database** using SQL and php
- **Gender Recognition** using Artificial Neural Networks in MATLAB7
- Development of an **FTP client for Linux** based systems
- Design and implementation of **Monopoly** in VC.NET.
- **Mouse-a-tron:** A proximity sensing robot using ATMEL 89C51 Microcontroller
- **iSpy:** Digital image processing project in MATLAB involving motion detection in a video sequence
- Implementation of Simple As Possible Computer (SAP)
- **Eco-culator:** A calculator in VC.NET for the calculating different economical entities in engineering economy
- **Solitaire:** A card game in VC++, an attempt to mimic windows solitaire game.

## AWARDS & EXTRA CURRICULAR ACTIVITIES

- Dean's Honour Roll for 3.5+ SGPA in 3<sup>rd</sup>, 5<sup>th</sup> and 6<sup>th</sup> semesters
- Executive Member of Following Societies
  - ACM, the Association of Computing Machinery GIKI Student Chapter.
  - Media Club.
- Part of organizing teams of four All Pakistan Software Competitions in GIKI
- Goal Keeper of Intra-GIKI Football League winning team.
- Goal-Keeper of hockey and football, Junior & Senior Chess Champion, an avid reader and a fine table tennis player.

# IQBAL TALAAT BHATTI

## PERMANENT ADDRESS:

131-G, Defence Society  
Lahore, Pakistan  
Tel: +92-300-4120884

Email: [iqbaltalaat@gmail.com](mailto:iqbaltalaat@gmail.com)

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## OBJECTIVE:

To seek placement at an organization that will help me exploit my creative potential and would help me build up on my technical and managerial skills.

## EDUCATION:

GIK INSTITUTE OF ENGINEERING SCIENCES & TECHNOLOGY TOPI, PAKISTAN  
B.S. Computer System Engineering (8<sup>th</sup> Semester) CGPA(7 Sems): 2.77

BEACON HOUSE, DEFENCE, LAHORE A' Level, 2002

THE LAHORE ALMA, DEFENCE LAHORE, O' Level, 2000

## WORK EXPERIENCE:

NCR GCC, ISLAMABAD (SUMMER INTERNSHIP) JUNE, 2005 - JULY, 2005

- Developed and implemented a JSP/MySQL based Candidate Testing System.
- Developed and implemented an Employee information system in JSP/MsAccess.
- Analyzed and debugged code for Pakistan Telecom that controlled call rate billing.

## PROJECTS:

- Currently working on, "Lip Synchronization with an audio stream" as a final year project.
- Implemented a Bayesian logic based e-mail spam filter in C++ as a course project.
- Developed an image editor and viewer in Matlab which is an implementation of algorithms for various filters, intensity transforms, slide shows and movie generation.
- Devised and implemented a system for extracting pressure data from the picture of a CRO screen to get discrete values into an Excel file in Matlab using DIP & Curve Fitting.
- Designed, assembled and programmed a 3 wheel pathfinder robot capable of exiting mazes using basic level circuit components and 89C51 microcontroller based programming in C.
- Designed and programmed a basic level SQL database engine in C.
- Developed software to perform breakeven analyses of multiple alternatives in C++.
- Developed a course registration and evaluation system in VC++ using MFC's.
- Implemented an LL(1) Parser, FTP Client and Simple As Possible Computer as coursework.

## COMPUTER AND OTHER SKILLS:

- Programming: C++, VC++, Matlab, Java, SQL, Prolog, Socket programming, Linux System Programming in C, Linux Scripting, Python, Assembly and C for C51 microcontrollers.
- Linux and Windows System Administration.
- Web Scripting & Tools: JSP, PHP, HTML, Macromedia Dreamweaver.
- Network Applications: OPNET IT Guru 9.1, Ethereal.
- Database Applications: Oracle, MS Access, MS SQL Server, Crystal Reports.
- Software Modeling: Rational Rose, MS Project, MS Visio.
- Productivity Software: MS Office, Open Office, Pro Desktop.
- Recreational Software: Adobe Photoshop, Adobe Illustrator, Combustion, Premiere, Flash.
- Certified by Qualcomm for completing CDMA RC1, RC2 & Network Planning Modules.
- Specialization Courses: CCNET, Parallel & Distributed Systems, AI, Satellite & Mobile Communications, Algorithms, Software Engineering, Image Processing & Graphics.
- Management, Communication, Group work, Report Writing & Presentation Skills.

## EXTRA CURRICULAR ACTIVITIES:

- General Secretary, Society of Photo-Optical Instrumentation Engineers.
- Executive member, Netronix (Giki's Student side campus Networking Society).

HOUSE # T-  
9391, STREET #  
2,  
FEROZABAD  
COLONY,  
DALAZAK RD,  
PESHAWAR  
25000,  
PAKISTAN

PHONE +92-91-2042278  
CELL +92-301-8354565  
E-MAIL  
IRFAN.AMD@GMAIL.COM

# IRFAN AHMAD

OBJECTIVE	To get job in a dynamic organization where I can apply and enhance my skill by being involved in technical projects		
EDUCATION	2002 – 2006	<b>GIK Institute of Engineering</b>	Swabi
	<b>BS Computer Systems Engineering</b>		
	■ GPA: 2.70/4.00		
	2000 – 2002	<b>Army Public School &amp; College</b>	Peshawar
	<b>HSSC (Pre Engineering)</b>		
	Marks: 767/1100		
WORK EXPERIENCE	June – July, 2005	<b>Jin Technologies</b>	Islamabad
	<b>Internee</b>		
	■ Worked on the design and analysis of a medical database project		
	■ Developed OpenGL plug-in for 4D database tools in MAC environment		
	June – July, 2004	<b>NWRD Organization</b>	Peshawar
	<b>Internee</b>		
	Designed and implemented a voice chat software over TCP/IP in Linux		
FINAL YEAR PROJECT	To analyze different Bluetooth scatternet routing protocols and develop a scatternet application in Linux OS		
SEMESTER PROJECTS	■ Developed an <b>FTP Client</b> for <b>Linux</b> based Systems to automatically retrieve specific type of files from FTP server		
	■ Designed and implemented an <b>online movies database</b> using MS-SQL Server and PHP		
	■ Developed a <b>Text to Speech</b> conversion module using artificial neural networks in Matlab		
	■ Developed a <b>two player chess</b> game in C++		
	■ Developed a <b>text chat</b> software for LAN using VC++		
TECHNICAL SKILLS	■ <b>Languages/Tools:</b> C/C++, VC, Java, Matlab, OpenGL, SQL, PHP, Socket Programming, Opnet IT Guru, Prolog, System Administration		
	■ <b>OS:</b> Windows X, Linux, Mac OSX		
EXTRA CURRICULAR ACTIVITIES	■ Playing computer games, reading fiction books and watching animes		
	■ Swimming, playing cricket, squash and badminton		
	■ Hiking, Tourism		

# M A J I D F A R O O Q D I Y A L

Email: [u2002079@giki.edu.pk](mailto:u2002079@giki.edu.pk), [majid.diyal@gmail.com](mailto:majid.diyal@gmail.com) Phone: 0300-5790982

Present Address: Room 75 – Hostel 2, GIKI, Topi (valid till May 2006).

Permanent Address: Diyal House, Main Fort Road, D I Khan Phone: 0966 711718/716381.

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## Objective

I endeavor to mingle academic knowledge with team management and leadership skills by contributing constructively in a professional environment while augmenting my engineering, interpersonal and leadership abilities.

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## Education

- **GIK Institute of Engineering Sciences & Technology (GIKI), Topi, Pakistan**  
BS in Computer Systems Engineering (2002-present, graduation expected in May 2006)
  - **Cadet College Hasanabdal (CCH)**  
FSc Pre-Eng (2000-2002)
- 

## Work Experience

- Interned for 7 weeks in summer of 2005 at **WorldCall Telecom Ltd** in PTCL Liaison Department.
  - Interned for 3 weeks in summer of 2005 at **DVCom** in Technical Department and MSC.
  - Working as the **Vice-President** and **Finance & Management Incharge** of Project Topi®, a charity based registered organization found by Gikians of Class of 2000 to improve literacy rate of Topi by educating those who don't have access to formal education and for poverty alleviation of Topi populace.
  - Working with **British Council** as a certified member of **Beyond Borders**; an international youth project running in five countries for creating social awareness.
  - Working as the **Content and Design Incharge** of **Official GIKI Profile CD** (part of institute's prospectus).
- 

## Technical Projects

- **Video Transmission over CDMA link**: senior design project. Implemented in Matlab.
  - **Data Concealment Software**: software to encrypt and to conceal a text document in a graphical picture. Developed in MATLAB.
  - **5 Character Marquee Display**: involved interfacing of AtMEL 8052 Microcontroller and programming in assembly language.
  - **Economica**: software that provides analytical study of different economic trends and decisions. Developed in Visual Basic.
  - **Development of an FTP client for Linux based systems**.
- 

## Professional Skills

- **Programming Languages/Tools**: C++, Visual C++, VB, Prolog, Assembly Language, SQL, Matlab.
  - **Modeling Tools**: UML, Rational Rose, MS Visio.
  - **Graphics Editors/Tools**: Flash MX, Adobe Photoshop, Adobe AfterEffects, Adobe Premiere, Ulead Video Editor.
  - **Operating Systems**: Red Hat LINUX, Windows 9x, 2000, NT, XP.
  - **Networking/Network Programming Tools**: OPNet IT Guru 9.1, Ethereal, Windows 2003 server administration, Linux system administration.
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## Awards/Achievements

- **Winner** of following awards in various Intra GIKI Drama Competitions:  
1. **Best Director 2003**      2. **Best Drama 2003**      3. **Best Script 2004**      4. **Best Drama 2005**
  - Awarded a memento for representing GIKI in 4<sup>th</sup> National Youth Theatre Festival 2004 held at Alhumra Arts Council by Rafi Peer Theatre Group and was nominated for **Best Actor** and **Best Graphic Designer**.
  - Awarded mementos for representing GIKI in following events held at GIKI by Cultural Dramatics and Entertainment Society:  
1. **6<sup>th</sup> All-Pakistan Drama Fest 2004**    2. **7<sup>th</sup> All-Pakistan Drama Fest 2005**    3. **8<sup>th</sup> All-Pakistan Drama Fest 2006**
  - **Winner** of **Best Effects and Editing** award in Intra GIKI Movie Competition 2003 held by GIKI Media Club.
  - Awarded **consolation prize** for competing in **Nascon 2005**, a national software/multimedia competition held by Fast-ICS Islamabad.
  - Awarded **Certificate of Honor** by **Naqsh-GIKI Arts Society** for valuable contribution towards the society.
  - Addressed **Induction Ceremony of Class of 2009** at GIKI as a **Model Student**.
  - **Winner** of **Best Speaker English** award at Cadet College Hasanabdal.
  - **Captain** of wing cleanliness team at Cadet College Hasanabdal and was awarded **Champions Trophy** for cleanliness.
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## Co-Curricular Activities

- Worked as the **Marketing Head** of the Annual Farewell and Annual Welcome events for the year 2004, held at GIKI.
- Conducted workshop on **Dramatics** held by GIKI Cultural Dramatics and Entertainment Society in September '04 and in November '05.
- Conducted workshop on **Movie Making** held by GIKI Media Club in February '06.
- **Writer** and **Director** of 5 theatre plays staged at GIKI, Alhumra Arts Council and Govt. College Lahore.
- **Directed** 3 music videos for various Intra GIKI Movie Competitions.
- Member of organizing committee for the following events:  
1. **SoftCom 2003**, national software competition held by ACM GIKI Chapter.  
2. **GIKI Art Gala 2004**, a national event held by Naqsh Arts Society.  
3. **All Pakistan Science Contest 2004**, a national event held by GIKI Science Society.  
4. **GIKI 10 Years Celebrations**, institute's official event held in January 2004.
- Member **Board of Editors** of **The Abdalian** (a Cadet College Hasanabdal publication).
- **Captain Debating Team** at Cadet College Hasanabdal.
- Member of following teams at Cadet College Hasanabdal:  
1. **Cricket.**      2. **Hockey**      3. **Athletics.**      4. **Dramatics.**

[Note: References can be made available on request]



# MUHAMMAD ALI ASGHAR

## Present Address

Room # 58, Hostel # 2, GIK Institute  
Topi 23460, District Swabi,  
Pakistan.  
Tel. no. +92-938-271858 (58-61)  
Pakistan.  
Email: [maliasghar@hotmail.com](mailto:maliasghar@hotmail.com)  
[u2002092@giki.edu.pk](mailto:u2002092@giki.edu.pk)

## Permanent Address

c/o Brig. Zafar Iqbal Malik,  
Joint Educational Advisor (TRG Wing),  
Ministry of Education,  
Shaheed-e-Millat Sectt., Islamabad,  
Tel. no. +92-51-9204167 (Off)  
+92-51-9281072 (Res)

## OBJECTIVE

A Career that allows me to apply my acquired knowledge to its fullest and to further develop my technical and managerial skills.

## EDUCATION

- GIK Institute of Engineering Sciences & Technology**  
BS in Computer Systems Engineering,  
Cumulative GPA: 3.22 (seven semesters out of eight)  
Topi, Pakistan  
Rank in Class (out of 55): 11
- Army Public College,**  
Intermediate (HSSC II): 883/1100  
Rawalpindi, Pakistan  
A+ Grade, Rank in College (out of 230): 1
- Institute of Learning & Motivation,**  
GCE O' Levels (Cambridge)  
Peshawar, Pakistan

## INDUSTRIAL EXPERIENCE

- Intel Corporation, Multimedia Super Corridor**  
CyberJaya, Malaysia
  - 'The ShowCase': Developed an automated multimedia content management toolkit capable of showcasing various types and formats of multimedia presentations at display centres. Designed and developed the Server Management Console for Central Remote Management of web frames.
  - 'CSS, CS Shuttle Bus Transportation System': Designed and developed prototype interfaces for the GPS Smart Logging and RFID Reader modules, as part of the Intel Corporate Services (CS) Bus Management System.
  - 'Intel University Courses': Attended some of the core courses like Business Practise Excellence, Continuous Improvement Overview, Presentation Skills, Open Door Initiatives, Managing Confidentiality Issues, Harassment Avoidance, Out of the Box Thinking, Navigating your Career.

## SENIOR DESIGN PROJECT

### CodeName: *Optimus*

Currently working on a Research project in joint collaboration with Intel Corporation, Malaysia and GIK Institute Pakistan, where we aim to achieve some suitable criteria for conversion of a sequential or weakly concurrent program into a highly concurrent and distributed (hence parallel) program. This project is still under work.

## SEMESTER RESEARCH REPORTS/PROJECTS:

- A Secure, Robust Multimedia Watermarking Tool using Discrete Frequency Transformations.
- Structure, Design and Implementation of a modern Pascal Compiler using VS.Net.
- Intelligent Search game using First Order Predicate Logic and Natural Language Processing.
- Replication of payroll accounting cycle and generation of fiscal end of year statements.
- Implementation of Digital Temperature Control System using ATMEL 89C4051 Microcontroller.
- Fabrication and System Interfacing of 68000 Motorola Microprocessor (SAP II).
- Development of a recursive FTP Client system for UNIX based Systems.

## REPRESENTATIVE PUBLICATIONS/BOOKS

- Asghar, Muhammad Ali. *A Document on Islam: Ideological, Historical & Contemporary Perspective*. Lahore: Caravan Enterprises.
- Asghar, Muhammad Ali. *Geography of Pakistan, Worked Solutions*. Lahore: Caravan Enterprises, 2000-06.
- Asghar, Muhammad Ali. *Islamiyat, Worked Solutions*. Lahore: Caravan Enterprises, 2001-06.

## COMPUTING SKILLS

- Operating Systems:** MS Windows (2000/XP, Server 2003), Linux, UNIX, Sun Solaris, BSD.
- Computer Languages:** Assembly (Motorola, MIPS), Shell Programming, ANSI C/C++, Visual C++.Net, C#, Java, Lisp, Visual Basic.Net, UML, SQL, Prolog.
- Engineering Tools:** OPNet IT, Ethereal, ProDesktop, Matlab, Rational Rose, OpenGL.
- Parallel Computing Tools:** OSCAR, OpenMP, OpenMOSIX, LAM/MPI, Rocks, PVM.
- Database Management Systems:** MS Access, MySQL Server, Microsoft SQL Server, Oracle.
- Web Development:** HTML, Macromedia DreamWeaver, Macromedia Contribute, MS FrontPage.
- Software Packages:** Macromedia Fireworks, Microsoft Office, MS Publisher, MS Visio, Adobe PhotoDeluxe/PhotoShop, Microsoft Sharepoint Services, MS Project, AutoCAD.

## AWARDS / ACHIEVEMENTS / WORKSHOPS

- Nominated on Dean's Roll of Honour for exceptional academic performance.
- Sun Certified System Administrator (SCSA) Solaris 9.
- Linux Professional Institute Certified (LPI) Level 1.
- 11 under amateur awards in Golf. Twice All Frontier Champion.
- Conducted and delivered two workshops on SunOS and Linux OS.

## CO-CURRICULAR ACTIVITIES

- Vice President, IEE GIKI Student Chapter.
- Executive Member GIKI Web Development team, GIKI Cricket Council, and Editorial Board Horizon.
- Regular participant in Dramatics and Extempore Style Debates
- Active participation in sports including Golf, Swimming, Squash and Horse Riding.
- Represented GIKI in 4<sup>th</sup> Youth Theatre Festival at Rafi-Peer Cultural Theatre, Al-Hamara Complex.
- An avid reader, having interest in contemporary Geo-Political affairs and Country's political and Military History.
- A very good player and enthusiast of flute.



# MUHAMMAD BASEER

## Present Address

Room # 57 Hostel # 2, GIK Institute  
Topi 23460, District Swabi, NWFP  
Pakistan  
Tel: (0938) 271858-61  
Fax: (0938) 271878  
Email: [m\\_baseer@hotmail.com](mailto:m_baseer@hotmail.com)  
[u2002097@giki.edu.pk](mailto:u2002097@giki.edu.pk)

## Permanent Address

c/o Brig Muhammad Bashir  
Deputy MS(B), MS Branch  
GHQ, Rawalpindi  
Pakistan  
Tel: (051) 56130999  
(051) 564710  
0300-5102928

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## OBJECTIVE

To enter the professional life in order to apply the various technical, management and decision making skills acquired during an illustrious academic career built at one of the best institutions of the country.

## EDUCATION

- **GIK Institute of Engineering Sciences & Technology (Topi), Pakistan**  
Bachelor of Science in Computer Engineering (7 Semesters completed out of 8) **CGPA: 3.01/4.00**
- **Colombo International School (Colombo), Sri Lanka**  
A Levels London University (May 2002) **Grades: 1 A, 2 B's**
- **Colombo International School (Colombo), Sri Lanka**  
O Levels London University (May 2000)

## SENIOR DESIGN PROJECT - Codename *Optimus*

Currently working on a Research project in joint collaboration with Intel Corporation, Malaysia and GIK Institute Pakistan, where we aim to achieve some suitable criteria for conversion of a sequential or weakly concurrent program into a highly concurrent and distributed (hence parallel) program. This project is still under work.

## EXPERIENCE

### Intel Corporation, MSC (Kuala Lumpur), Malaysia

Did a twelve week internship in the summer of 2005, during which I worked upon following:

- Design and implemented a Server/Client application '*The ShowCase*', to showcase multimedia presentations of various formats running on number of terminals and managed remotely by PDA.
- Design and implemented software for the Internal and External Transport System at Intel Corporation Penang, Malaysia. That would take the input from the GPS and bring up to date the central authority about vehicle current location on a digital map to synchronise the buses on the route.
- Attend courses at Intel University Penang, Malaysia such as Business Practise Excellence, Continuous Improvement Overview, Presentation Skills, Open Door Initiatives, Managing Confidentiality Issues, Harassment Avoidance, Out of the Box Thinking, Navigating your Career.

## PROFESSIONAL SKILLS:

- **Programming Languages:** C/C++, Visual C++, C#, Visual Basic, Java, Matlab, Prolog, My SQL, MS SQL, ORACLE, Assembly programming, Lisp, Shell Programming
- **Software Packages:** MS Office, Publisher, Frontpage, Visio, Adobe Photoshop, Corel Draw, Rational Rose, AutoCAD, PVM, OPnet IT, Ethereal, Macromedia Flash, Ulead Media Studio, ProDesktop
- **Operating systems:** Microsoft Windows 9x, NT, 2000, XP, Server 2003, Linux, Unix, Sun Solaris
- **Technical Expertise** Technical & feasibility report writing

## AWARDS/ACHIEVEMENTS:

- Have been placed twice on Dean Honour Roll due to excellent academics.
- Represent Pakistan at Model United Nations (Colombo, Sri Lanka).
- Represented GIKI in 4<sup>th</sup> Rafi Peer Youth Theatrical Festival 2004 (Alhamra, Lahore).

## SEMESTER RESEARCH PROJECTS:

- Design and implementation of a subset of Pascal Compiler using C#.
- Implementation of a Secure, Robust Multimedia Watermarking software using the concepts of Digital Image Processing.
- Implementation of 68K Motorola processor based computer with I/O, RAM, ROM, and various Peripherals.
- Design and implementation of GIKI payroll accounting cycle and preparation of financial statements.
- Implementation of Tomasulo Algorithm in .NET framework using the concepts of Parallel Processing.
- Intelligent Search Game using First Order Predicate Logic and Natural Language Processing.
- Implementation of a FTP client in UNIX.
- Design and implementation of Digital temperature control system using the Atmel 89C4051 Microcontroller.
- Designing of GIKI Student Management System using UML and implementing it through OOP techniques.

## CO-CURRICULAR ACTIVITIES:

- Executive Member of GIKI Science Society
- Executive Member of GIKI Environmental and Awareness Society
- Executive Member of GIKI Cricket Council.
- Executive Member of GIKI Football Club.
- Taken part in various Parliamentary Debates and Dramatics.

## MUHAMMAD HASNAIN RAJA

### Present Address:

Faculty of Computer Sciences, GIK Institute,  
Topi 23460, District Swabi, NWFP, Pakistan  
Email: [muhammad\\_hasnain@hotmail.com](mailto:muhammad_hasnain@hotmail.com)

### Permanent Address:

House No. 2, HQ Military Farms Group  
Renala Khurd, Okara, Pakistan  
PH: 044-2621107  
044-2621156

### OBJECTIVE:

To work in a highly professional and competitive environment where I can learn and gain practical experience that will help me improve my technical and managerial skills.

### EDUCATION:

<b>Ghulam Ishaq Khan Institute of Engineering Sciences and Technology</b>	<b>(2002 – Present)</b>
BE in Computer Systems Engineering	
Expected Date of Graduation: May 2006(CGPA: 2.30)	
<b>Federal Government College Okara Cantt</b>	<b>(2000 – 2002)</b>
HSSC (Pre- Engineering)	
<b>Army Public School Okara Cantt</b>	<b>(April 2000)</b>
SSC (Science)	

### FINAL YEAR PROJECT:

Design and implementation of an Iris Identification System based on adaptive thresholding. The 'Iris Patterns' are used as the unique biometric identification feature which are obtained through different algorithms of segmentation, normalization and feature encoding. The main tools used are MATLAB 7.0.

### WORK EXPERIENCE:

Worked as Intern in NetSol (Pvt.) Ltd for 8 weeks, NetSol is a worldwide leader of leasing, Banking and Knowledge Automation products and solutions. NetSol offers a variety of products; I worked on Content Management Systems.

### PROJECTS:

- Implemented an automated MCQ Answer sheet checker using MATLAB v 6.5.
- Development of a FTP Client for a Linux based system.
- Created a web based Student Teacher Database.
- Implemented Traveling salesman problem using AI techniques.
- Designed a 'Digital Alarm Clock' using ATMEL 8051 microcontroller.
- Designed a database of a College library using OOP techniques.
- Implemented SAP (Simple as Possible) Computer.
- Implemented a Polynomial Calculator in C++ using Data Structures.
- Designed a mini database for a Medical Centre using Visual C++.
- Implemented a 'Graphical Calculator' in Turbo C++.
- Prepared a research report on 'Computers & Materials'.

### PROFESSIONAL SKILLS:

**PROGRAMING LANGUAGES:** C, C++, Visual C++, Shell Scripting on Linux, Socket programming, ASP.

**OPERATING SYSTEMS:** Linux, Microsoft Windows 9x, 2000, Xp, 2003 server, Windows 2003 server administration, Linux system administration.

**TOOLS AND TECHNOLOGIES:** MATLAB, OPNET IT Guru (Network Design Projects), Ethereal: A network protocol analyzer, Rational Rose, Microsoft Office, Adobe Photoshop, Prolog, Security auditing in Networked systems (Linux and Windows 2003 server), Microsoft Access, My SQL.

### ACHIEVEMENTS:

Volunteer for Topic Project (Working for the poor students in Topi and surroundings).  
Took Active part in arranging Blood Camps and Eye Camps for the poor people of Topi

# MUHAMMAD SHOAIB

Present Address:  
Faculty of Computer Engineering, GIK Institute  
Topi 23460, District Swabi,  
NWFP, Pakistan.  
Email: [u2002115@giki.edu.pk](mailto:u2002115@giki.edu.pk)  
/ [m\\_shoaib\\_sarwar@hotmail.com](mailto:m_shoaib_sarwar@hotmail.com)

Permanent Address:  
House No 384/D-6, Lane#7  
Misriyal road, Rawalpindi,  
PH: 051-8003982  
Mobile: 0300-8321664

## OBJECTIVE

To secure a promising position that offers both a challenge and a good opportunity for learning while being associated with a dynamic and visionary organization.

## EDUCATION

2002-2006	BS IN COMPUTER ENGINEERING Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi. GPA: 2.93/4.00
2000-2002	F. Sc. (PRE-ENGINEERING) F.G.Sir Syed College Rawalpindi. Marks: 904/1100.

## INTERNSHIP: ULTIMUS PAKISTAN SUMMER 2004

Development of a web based database project for Ultimus' client website using ASP.NET/C#/MS SQL Server 2000.

## SEMESTER PROJECTS

Course	Project Title	Dev. Environment
Senior Design Project	Development of WAN for <i>PIFRA</i> (assisted by Pakistan Audit Department and sponsored by World Bank & International Development Association)	OPNET IT Guru
CCNet	Making an FTP client	Socket programming/Linux
Digital Image Processing.	Filtering in frequency domain	MATLAB
Microprocessor Interfacing.	TCP/IP in Embedded Systems.	Assembly Language, C++
OO Programming.	Hospital Management Information System	C++
Intensive Prog. Lab.	Database of a company.	VC++
Data Structures.	File sorting.	C++
Intro to computing.	Graphical Calculator.	C++

## TECHNICAL SKILLS

### LANGUAGES/TOOLS:

- C++
- SQL
- Rational Rose
- OPNET IT Guru
- MATLAB
- Prolog
- Socket Programming

## ACHIEVEMENTS

- Distinction holder in F.G.Sir Syed College Rawalpindi (2002).
- Awarded scholarship by Ultimus Pakistan.
- Co directed a play in inter GIKI Drama Competition.
- Awarded Merit Scholarship for 3 years by Shaheen Foundation.
- Member of the winner cricket team in inter GIKI Cricket Tournament.

# MURTAZA SHABBIR SAFRI

## PERSONAL INFORMATION

Present Address: Room 57, Hostel 5, GIK Institute Topi 23460, District Swabi, NWFP, Pakistan. Email: <a href="mailto:murtazasafri@gmail.com">murtazasafri@gmail.com</a> , <a href="mailto:murtazasafri@yahoo.com">murtazasafri@yahoo.com</a> , <a href="mailto:u2002124@giki.edu.pk">u2002124@giki.edu.pk</a>	Permanent Address: D-10 Block C, North Nazimabad, Karachi. PH: 92-021-6639634 Cell no: 0092-300-3753152
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## EDUCATION

2002-2006	<b>BS IN COMPUTER SYSTEM ENGINEERING</b> Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi. <b>CGPA: 3.77/4.00</b>
2000-2002	<b>F. Sc. (PRE-ENGINEERING)</b> Hamdard College Of Science and Commerce. Marks: 867/1100.

## INTERNSHIP: DATA COMM. AND CONTROL KARACHI SUMMER 2005

Tactical Trainer for Pakistan Navy using High Level Architecture (HLA) based distributed simulation. I wrote the code for Visuals Federate in Visual C++ 7 using Visual Source Safe for project management.

## INTERNSHIP: PIA KARACHI SUMMER 2003

Worked in Equipment Servicing and Repair workshop for repairing dumb terminal workstations. In Networking department, I gained experience with sophisticated equipment (Routers, Modems, Optic Fibers, Mainframe). In the Information Systems Department, observed the PIA database for inventory and payrolls.

## FINAL YEAR PROJECT: LIP SYNC 2005-2006 (UNDER PROGRESS)

The objective is to take human speech as input and to animate a pair of lips generated using Computer Graphics. Algorithms used were for Speech recognition using Hidden Markov models and Learning Predictive Coding, Vector Quantization for phoneme recognition, Phoneme to viseme mapping and rendering viseme using a mathematical facial model for generating control points of a B-Spline surface for lips.

## SEMESTER PROJECTS

Course	Project Title
Artificial Intelligence	TSP using Genetic Algorithms, Ant Colony optimization and Kohonen Self Organizing Maps, Borland C++ v5, Matlab 7.0
Computer Networks	FTP client, Linux GCC v3.2
Databases	Student Transcript and course management system, PHP / MySQL, Dreamweaver
Image Processing	Optical Character Recognition, Matlab v7.0, GUI based
Microprocessor Interfacing	Line Tracking automated grid map navigating Robot, 8051 Microcontroller, Pinnacle 8052 Assembler
OO Programming	Database engine with basic SQL implementation, TurboC
Data Structures	Network Routing Algorithm, C# .Net
Programming Lab	Network based Collaborative Paintbrush (Whiteboard), Visual C++ v.6
Intro to Computers	GUI based piano with recording and playback, TurboC

## COMPUTER AND TECHNICAL / OTHER SKILLS

Languages	C#, Visual C++, MATLAB, PHP, Prolog, ASP .NET, Shell and System Prog. in Linux
Tools	OpenGL, Rational Rose, MySQL, Microsoft Access and SQL server, MS Visio, MS Project, OPNET IT Guru(Academic Edition), Verilog, Max2Plus, ASIC design tools
Admin	Security auditing and server administration on Linux and Windows 2003 Server

## ACHIEVEMENTS

- Deans Honor Roll for all of the semesters completed till now (1st- 7th)
- Conducted a case study on feasibility of DHCP implementation on hostel area network
- Conducted workshop on Linux for Desktop Computing
- President of English Society, Hamdard Public School, 1995-97
- Article on spyware "How to be safe" published in Sci-Tech, Dawn Newspaper, 15<sup>th</sup> October 2005 issue

## EXTRA-CURRICULAR ACTIVITIES

- Working as head of the Science Society Technical Team and developed Quiz Software
- Member of Netronix Society GIKI and working as the Network Administrator of Hostel 5
- Participated in ABU ROBOCON 2005 Pakistan, Robotics competition
- Participated in Computer Gaming Competitions for Counter-Strike, Mohaa and Quake 3.

# Nabeel Shehzad

## PERSONAL INFORMATION

Address: NE-510/A Street No.4, Ariya Mohallah, Rawalpindi.  
Phone No: +92 – 300 – 9563979, +92 – 51 – 5962585  
E-mail: nabeel\_shehzad@hotmail.com, u2002125@giki.edu.pk

## OBJECTIVE

**Seeking position in a dynamic organization to do technical and practical projects and to enhance and apply my engineering skills.**

## EDUCATIONAL HISTORY

**2002 – 2006** **BS** Computer Systems Engineering,  
**GIK Institute** of Engineering Sciences & Technology, Topi, Swabi, Pakistan.  
Majors: Signals and Systems, Computer Networks, Satellite and Mobile Communication  
Electives: Software Engineering, Design Patterns, Computer Graphics  
(CGPA 3.23/4.00 Date of Completion: May, 2006)  
**2000 – 2002** **F-Sc.** Pre-Engineering, **F G Sir Syed College**, Rawalpindi, Pakistan.  
(Marks 933/1100, A-1 grade)

## FINAL YEAR PROJECT

**Remote System Administration via PDA:** An application, designed and implemented for Symbian Operating System mobiles, that allows a user or a network administrator to remotely access his computer by means of a PDA using the GPRS service on a GSM network.

## TECHNICAL SKILLS

### Programming Languages

- C++, VC++, JAVA, C#, HTML, ASP.Net, PHP, Linux Shell programming, Matlab, Prolog, SQL.

### Operating Systems

- Windows (98, Xp, Server 2003), Linux (SuSE 9.0, Red Hat).

### Softwares

- Visual Studio .Net, Rational Rose, MS Visio, MS Project, MS Access, MS Office, OpNetIT Guru
- CodeWarrior, UIQ, J Test, MAYA, 3D Studio Max, OpenGL, Direct X, Adobe Photoshop, Adobe Premier

### Proficiency

- Presentation Skills, Technical Report and Letter Writing, Group work, Good communication skills.

## WORK EXPERIENCE

- Worked as **Trainee Software Engineer** at **Data Communication and Control (Pvt.) Ltd.**, Karachi, in **ASTT** (Action Speed Tactical Trainer) project. Also designed six 3D models of Air Crafts for the ASTT project. ( 8 weeks internship, Summer 2005 )
- Developed a database system for **Orion Star Packages (Pvt.) Ltd.**, Rawalpindi using **MS SQL server** and **VC++**. ( 10 weeks project, Summer 2004 )
- Worked for **DANCOM Pakistan (Pvt.) Ltd.**, Rawalpindi, in the Dancom Online Services (DOLS) as a Trainee **Network Administrator**. ( 6 weeks internship, Summer 2005 )

## SKILLS

- Certificate course of **3D modeling** and **animations** using **MAYA** from CDS, Rawalpindi.
- Certificate course of **Web designing and E-commerce** from Abacus College of Computer Sciences.
- Attended 100 hours training program in **French** Language form NUML, Islamabad.

## SEMESTER PROJECTS

- **GIKI Online Library Management System**, software engineering, rational rose, MS visio.
- **Design of Remote Desktop between Linux and Windows**, software engineering, rational rose.
- **Linux FTP Client**, sockets, recursive directory traversing, active mode.
- **Tic-Tac-Toe**, Artificial Intelligence, Mini-max Algorithm.
- **Image Filtering in Frequency Domain**, matlab, Fourier transform in frequency domain.
- **Embedded e-mail System on LAN**, microcontrollers programmed in C++, IR sensors, hard wired.
- **Graphic Simulation of AVL Trees**, C++, nominated best project of data structures course.
- **Car Parking System**, design and implementation, rational rose, MS visio, C++.
- **Graphical Calculator**, C++.
- **Technical Report**, A complete history and working of Pakistan's space station, **SUPARCO**.

## COCURRICULAR ACTIVITIES

- Captain of the winning team of **GIKI Inter Batch Cricket Tournament, 2005**.
- Member of **GIKI** squash team.

## REFERENCES

- **Dr. Ghulam Shabbir**, Assistant Professor, Faculty of Engineering Sciences, GIK Institute. (shabbir@giki.edu.pk )

# RIZWAN MUZAFFAR ALI

## Present Address:

Faculty of Computer Engineering, GIK Institute  
Topi 23460, District Swabi, NWFP, Pakistan.  
PH: 0938-71858-2487  
Email: [rizwaan.aali@gmail.com](mailto:rizwaan.aali@gmail.com)

## Permanent Address:

House No 23,Phase3  
New Canal Park Lahore.  
PH: 0300-4334185

## Objective

To gain work experience and to enhance engineering and management skills over my base in Computer System Engineering while being associated with a competitive, dynamic and visionary organization.

## EDUCATION

2002- Till date

### BS IN COMPUTER SYSTEM ENGINEERING

Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi.  
GPA: 3.05/4.00

1998-2000

### F. Sc. (PRE-ENGINEERING)

Govt: College Faisalabad. Marks: 907/1100.

## INTERNSHIPS :

### ULTIMUS Pakistan (2004):

- Mastered ULTIMUS Workflow Suite.
- Member of team automated administrative and management procedures of GIK INSTITUTE using ULTIMUS workflow and MS Access (database).

### MOBILINK (2005):

- Worked in Transmission Planning Dept. and got prior understanding about GSM and GPRS.
- Understood the working of ATMs in Mobilink. their installation, configuration and monitoring.
- Assisted in mobile monitoring of Mobilink's mega project of laying Fiber between MSC's

## Final Year Project

### Design and Implementation of Transport layers and security mechanism in Mandala

Mandala is a **java** framework for dynamic distribution of objects.

- To customize Mandala for UDP(using NIO for performance boost), SOAP and JToe.
- Also research for the appropriate Security mechanism for Mandala.

## SEMESTER PROJECTS

COURSE	PROJECT TITLE .	ENVIRONMENT
IData Structure	Traveling salesman problem	Turbo C++
OO Programming	Implementation of RDBMS	Rational Rose, SQL
Digital Image Processing	Digital Image Filtering in Freq. Domain	MATLAB
Databases	Online Music library	MS Access, ASP
Microproc. Interfacing.	TCP/IP in Embedded systems	Assembly ,C
Asic Design	Elevator System	Verilog
Artificial Intelligence	Tig-Tag-Toe (Game)	Visual Basic
Computer Networks	FTP client	C language.

## TECHNICAL SKILLS

- Skills in System (**LINUX**) and Socket Programming.
- **LANGUAGES/TOOLS: VC++, VB, SQL, Rational Rose, MATLAB, Prolog, OPNet IT GURU 9.1, Verilog (Altera Max II Plus), Open GL.**

## ACHIEVEMENTS / ACTIVITIES

- Named in **Dean's Honor Roll in 3rd semester.**
- 2nd Position in Govt: College Faisalabad in F.Sc (Pre-Eng).
- Arranged '**Softcom 2003**' as a Team Member.
- Arranged '**UGX All Pakistan E-Gamming Competition**' as a Team Member.
- Acted in Drama from **GIKI in All Pakistan Drama Competition 2004.**
- Performed a Mime in All Pakistan ART GALA 2004, also performed in **AL-HAMRA** theater
- **Man of the Match** of the final of 17<sup>th</sup> GCC Cricket Tape Ball tournament

## References

1-Engr Hafiz **Hassan**.  
2-Dr **Pierre** Vigenares

Regional Manager Mobilink Ihr 0300-8487966  
Assistant Professor FCSE GIKI

# SADAF SHOKAT

## Present address:

P.O. Box # 26077, Abu Dhabi, U.A.E.  
Ph.#:00971-2-4436112,00971-50-6418430.

## Permanent address:

F-676, Satellite Town, Rawalpindi,  
Ph.#:0092-51-4413755, 0092-300-9773718.

E-mail address: u2002139@giki.edu.pk,sadaf.shokat@gmail.com, sadaf\_shokat@hotmail.com

## Objective:

To explore all the opportunities for professional growth and personal advancement, while contributing to the success and effectiveness of the management operations of the organization and also polishing my basic skills of engineering and management.

## Education:

- Eighth semester in the Faculty of **Computer Sciences Engineering** in Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, Swabi, NWFP, Pakistan. CGPA of 3.23/4.00 (Seventh semester).
- Advanced-Level General Certificate of Education, London University (2002) from I.E.S, Abu Dhabi, U.A.E. Secured 2 A grades and 1 B grade in A-Level Certificate.
- Ordinary Level General Certificate of Education, London University (2000) From I.E.S, Abu Dhabi, U.A.E. Secured 5 A grades in O-Level Certificate.

## Experience:

- **Deutsche Babcock Energie Und Umwelttechnik AG, Abu Dhabi, U.A.E:** Worked in HR & Admin. , Projects, Manpower, and Process Automation Departments and learning software like EPRO, SCADA (CIMPLICITY HMI) and E-Plan.

## Technical & Programming skills:

Languages: C++, Prolog, VC++, LISP, Linux.

Tools: Visual C++, Borland C, Rational Rose, MATLAB, MS Access, MS SQL server, Oracle 8i, OPNet IT Guru 9.1, Etherreal, Pro-Desktop, OpenGL.

Platforms: DOS, Windows 98 /2000/ XP, Windows Server 2003, Red Hat Linux.

## Final Year Project:

- **Remote System administration via PDA:** Designing, Development, and Implementation of a new stand alone application for third generation of mobiles allowing users to remotely access their computers from almost everywhere in the world using their own PDA.

## Achievements:

- Secured Distinction in Sixth Semester in GIKI with a GPA of 3.63.
- Secured 1<sup>st</sup> position in 11<sup>th</sup> grade (A-Level 1).
- Secured 1<sup>st</sup> position with 100% IQ level in a test held throughout U.A.E.
- Awarded shields as Captain for overall performance in Academics and Sports.

## Semester Projects:

- **Database:** Online Bookstore implemented with Asp.net & C# as front-end and MS Access as back-end.
- **Artificial Intelligence:** Implementation of intelligent game using alpha-beta pruning in Visual Basic.
- **Computer Communication & networking:** Intelligent version of FTP server in Linux.
- **Microprocessor Interfacing:** Digital clock with Calendar & Alarm system using 8051 micro controller.
- **Digital Image Processing:** Answer Sheet Evaluation System in MATLAB.
- **Computer Architecture:** Implementation of Simple-As-Possible (SAP) Computer.
- **Object Oriented Programming:** Banking System with records of customers & employees in C++ & Rational Rose.
- **Data Structures & Algorithms:** File Indexing using Binary search trees in C++.
- **Intensive Programming:** Auto-Bank, a banking software using Visual C++.
- **C++ Project:** Graphics Editor.

## Extra curricular Activities:

- Executive Member of GIKI Science Society and Women Engineering Society.
- Shell Environment Awareness Project 2002.
- House captain for 2 consecutive years in A-levels.



# SHADMAN SAFDAR KHATTAK

E-Mail: [shadman\\_safdar@yahoo.com](mailto:shadman_safdar@yahoo.com), [u2002148@giki.edu.pk](mailto:u2002148@giki.edu.pk)

+92-300-5949813, Room No. 20 Hostel No. 3, GIK Institute Topi, Pakistan

**OBJECTIVE:** To apply and nourish my technical and managerial skills by working in the pragmatic environment of a multinational corporation and acquaint myself with the necessary skills required to excel in the practical arena of corporate world

## EDUCATION

**2002 – till date:** Undergraduate student of final year (8<sup>th</sup> semester) Computer Systems Engineering (4 year degree program), GIK Institute of Engineering Sciences & Technology, Topi, Pakistan. **CGPA:** 3.21/4.00

**2000 – 2002:** Matriculation and F-Sc from PAF Degree College Risalpur

## EXPERIENCE

**Intern:** 6 weeks internship (July 19 – Aug 28, 2004) at **PTC**, Jhelum Factory, Pakistan- A member of **British American Tobacco (BAT) Group**. Completed the assigned project on “**Centralized Information System for LOGAS**” and submitted the project report

**Intern:** 8 weeks internship at **Ericsson Pakistan (ECP), Karachi Office** (June 24 – Aug 19, 2005). Worked at **BSS Department** and undergone the integration of **900 MHz to 1800 MHz** under **Ericsson-Warid Project Phase 2-A (Southern Region)**

## HIGHLIGHT OF SKILLS

- Operating systems: Windows, Linux
- Programming skills: C++, VC++, JAVA, OpenGL, Linux Shell programming, Matlab, Prolog
- Softwares/Utilities: SQL Server, Rational Rose 98, OPNet IT Guru 9.1, Ethereal, Network Simulator, MS Access, Macromedia Flash MX, Swish, ULEAD, Adobe Premiere and Adobe Photoshop
- Familiar with LAN and its trouble-shooting

## MANAGEMENT ELECTIVES

- Industrial Management, Total Quality Management, Operation Management, Project Management

## ACADEMIC PROJECTS

- **Final Year Project** – Devising an event based protocol for **Routing in Wireless Sensor Networks (WSNs)** and simulating it for the case of **Surveillance and Hazard Detection in a Nuclear Power Plant** using NS-2
- **Computer Architecture** – Implementation of SAP (Simple as Possible Computer) circuitry
- **Data Structures and Algorithms** – Implementation and analysis of advanced data structure Fibonacci Heaps. Tool: C++
- **Intensive Programming** – Call waiting software by the implementation of queues. Tool: VC++
- **Object Oriented Programming** – A LAN Download Manager which copies the same file simultaneously from different locations on LAN, thus minimizing the time of copying. Tool: Java
- **Digital Image Processing** – Video authentication using Digital Water Marking. Tool: Matlab
- **Micro-Controller Interfacing** – Implementation of Digital Telephone Exchange using Atmel 8052 microcontroller(AT8052)

## MANAGEMENT PROJECTS

- **Technical Reports and Communication Skills** – Feasibility Report on the establishment of a Milk Plant at Topi
- **Engineering Economy** – A software which selects the best project among a given set of alternatives considering present worth, annual worth, profits, payback periods, compound interests, etc. Tool: VC++
- **Industrial Management** – Research and investigate the potential market opportunities for a new Paint Manufacturing Company. Conducted Competitor-Marketing analysis. Formulated Demand Analysis and recommended strategies to achieve corporate objectives

## CO-CURRICULAR ACTIVITIES

- **President**, GIKI Environmental and Awareness Society (**GEAS**)
- **Vice President**, Institute of Electrical and Electronic Engineers (**IEEE**), GIKI Student Chapter
- **Director Finance**, “**Project Topi**”, a student based help organization that financially assists children of poor community in acquisition of education in Topi village, providing resources in this regard
- **General Secretary**, American Institute of Aeronautics and Astronautics (**AIAA**), GIKI Student Chapter
- Executive member, GIKI Science Society (**GSS**)
- Executive Member, Organizing Committee **INMIC 2003**, the seventh International Multi Topic Conference held at Serena Hotel, Islamabad, jointly organized by GIK Institute and IEEE Islamabad in December 2003
- Represented GIKI at **Rafi Peer Theatrical Festival 2003** (Alhamra Cultural Complex, Lahore)
- Participated in **All-Pakistan Photography Competition** held at NIMS (NUST) Rawalpindi in the year 2003
- Represented GIKI Institute at **Telecom Engineering 2005**, organized by **EDB** and **PTMA** at Marriott Hotel Islamabad (Sept, 2005)
- Member organizing committee **Softcom 2002, 2003 and 2004**; a National Software Competition organized by **ACM**, GIKI Chapter
- Took part in Parliamentary Style of Debates and participated in declamation contests at school, college, zonal and national levels

## AWARDS AND ACHIEVEMENTS

- Declared **Star Laureate 2001** by South Asia Publications in the field of extra-curricular activities and won **XII Star Award** in the year 2001
- Won **Shaheen Excellence Scholarship** in the year 1999 for good academic performance
- **QUALCOMM® –PAKCDMA** certification for CDMA2000 1xRelease 0, CDMA2000 1xRC1 & RC2 and CDMA2000 Network Planning
- On **Dean’s honor Roll** in Fall 2003
- Won **Best English Speaker** Trophy at **Intra-GIKI Bilingual Declamation Contest 2004**
- Won considerable number of certificates and trophies of distinction in academics and co-curricular activities



# Shahryar Ibrahim Chaudry

## PERSONAL INFORMATION

Permanent Address: House 196 CC, Phase 4, Defence Housing Authority, Lahore, Pakistan.  
Present Address: Room # 35, Hostel 6, GIKI Topi, District Swabi, NWFP, Pakistan.  
Phone No: 92-42-5890965, 92-300-4771868  
E-mail: u2002149@giki.edu.pk, [shahryar\\_ch@hotmail.com](mailto:shahryar_ch@hotmail.com)

## OBJECTIVE

To enter the professional life in order to apply the various technical, management and decision making skills acquired during academic career.

## EDUCATIONAL HISTORY

**2002 – Present** Bachelor of Science: Computer Systems Engineering (Grad: May 2006) **CGPA: 2.94**  
GIK Institute of Engineering Sciences & Technology, Topi, Pakistan.

**2000 – 2002** A-levels – Lahore Grammar School, Lahore **Result: 3 Bs** (Math, Physics, Chem.)

## FINAL YEAR PROJECT

### IRIS IDENTIFICATION SOFTWARE

Design and implementation of an Iris Identification System based on adaptive thresholding. The 'Iris Patterns' are used as the unique biometric features which are obtained through different algorithms of segmentation, normalization and feature encoding. The main tools used are MATLAB 7.0 and MS Access.

## EXPERIENCE

### APOLLO TELECOM (Nortel Networks), LHR

*Internee, May '05 – July '05*

A two month internship in the RF Department which included shakedown of new cell sites, optimization drive testing using TEMS Investigation, using MapInfo 7.5 for report generation, post processing of long call and short call data.

### ICI PAINTS BUSINESS, LHR

*Internee, June '04 – July '04*

Implemented a database for the Marketing Department which included a daily report generation system and aimed to help the marketing and the sales dept. to register an increase in the paint sales. Also conducted a telemarketing project regarding the sale of Glidden Paint of ICI.

### IT DEPT PEARL CONTINENTAL HOTEL, LHR

*Internee, June '03 – Aug '03*

Setting up of the Local Area Network, troubleshooting of computer hardware / software and an insight about their security systems.

## SEMESTER PROJECTS

- Web Based Student Teacher Database using Microsoft Access and ASP **(Databases)**
- Automatic Path Finder using Microsoft Visual C **(Artificial Intelligence)**
- Automated MCQ Answer Sheet Checker using MATLAB 6.1 **(Digital Image Processing)**
- Digital Alarm Clock using ATMEL 8051 microprocessor **Microprocessor Interfacing)**
- Design and implementation of Library System using Rational Rose/C++ **(OO Programming)**
- Technical report on establishing a hospital in GIKI **(Engineering Economy)**
- 'Paranoid' computer game (VC++), 'Polynomial Calculator' and 'Graphical Editor' (Turbo C++)

## SKILLS

- **Programming languages:** C++, VC++, Linux Shell Programming, FTP Client, Prolog
- **Operating Systems:** Linux, MS Windows 9x, 2000, XP.
- **Tools:** MATLAB, OPNet IT Guru 9.1, Rational Rose 98, MS SQL Server, Ms Access, Oracle

## AWARDS AND ACHIEVEMENTS

English Editor, **HORIZON** - GIKI's Bilingual Magazine  
Treasurer, **ACM GIKI Chapter** (Association for Computing Machinery)  
Executive Member, **GEAS** (GIKI Environmental and Awareness Society)  
**Exhibition Head** of Softcom 2005 (National Software Competition)  
**Organizer** Softcom (2003 and 2004) and All Pak Parliamentary Style Debates 2003  
Represented GIKI in Rafi Peer Youth Theatrical Festival 2003 (Alhamra, Lahore)

# SHAMS SALEEM ALLANA

## PERSONAL INFORMATION

**Permanent Address:** 314 Amynabad P.I.B Colony off Martin Road Karachi, Pakistan

**Phone / Email:** 923005174219, 92(021)4949025 / [shamsallana@hotmail.com](mailto:shamsallana@hotmail.com) , [shamsallana@gmail.com](mailto:shamsallana@gmail.com)

## OBJECTIVE

To enhance my engineering and interpersonal abilities by working in a professional environment where my knowledge and skills will be shared and enriched

## EDUCATION

**2002 –2006** **GIK Institute of Engineering Sciences & Technology, Topi, Pakistan.**  
BS. Computer Systems Engineering - 8<sup>th</sup> semester; **CGPA: 3.33** (after 7 semesters)

**2000 – 2002** **The Oasys School, Karachi.** GCE A-Level; **2 A's** (Physics & Mathematics) 1B & 1C

## EXPERIENCE

**Data Communication & Control (Pvt.) Ltd.**

**Intern, (30<sup>th</sup> May – 26<sup>th</sup> July, 2005)**

- Developed an Online Testing System for training the staff of WAN-III Simulator, a Wide Area Network for the Pakistan Navy for communication between its major installments (ASP.Net {C#}, SQL Server 2000)
- Prepared a detailed report on the structure, functions and operations of the Finance Department, Govt. of Sindh, to facilitate the initial Analysis phase of the Computerization of its Treasury Offices.

## SENIOR DESIGN PROJECT

**Remote System Administration via PDA –** A System that enables its users to manage their PC's from any remote location using a Personal Digital Assistant (Mobile Computing: PDA Application for Symbian OS on CodeWarrior IDE using Sony Ericsson P910i UIQ SDK ; Server Application in C#)

## SEMESTER PROJECTS

- **M-Charts**, an online music database system maintaining the top 10 charts and music info, MS Access; ASP
- **Vehicle's speed estimation using un-calibrated cameras** (Digital Image Processing), Matlab 6.0
- **LED Display Panel using 80c51 microcontroller** (Microprocessor Interfacing)
- **"Digital Beamforming in Wireless Communications"**, term paper
- **Performance Evaluation of 4 AI Algorithms (Blind & Heuristic Search) for 8-Puzzle Problem**, C#
- **Hardware implementation of SAP-1 (Simple As Possible) Computer** (Computer Architecture)
- **Software for Breakeven Analysis of production methods** (Engineering Economy), C++
- **FTP Client**, C
- **Tetris Game**, C++, object oriented approach
- **File Indexing using Binary Search Trees**, C++
- **Computerized Cricket Rating System**, Visual Basic 6, MS Access
- **Feasibility report** for establishing a **Milk Plant in Topi, Pakistan**

## TECHNICAL SKILLS & INTERESTS

- **Programming Skills:** C++, C#, Visual Basic, Linux Shell programming, Prolog, Verilog (minor experience).
- **Modeling & Simulation Tools:** UML, Rational Rose, MS Visio, OPNet IT Guru (Academic Edition)
- **Databases:** MySQL, MS SQL Server 2000, MS Access
- **Application Packages & IDE's:** MS Visual Studio.NET, MATLAB, OpenGL, CodeWarrior, MS Office (2k/03/XP)
- **Graphics & Multimedia:** Macromedia Flash MX, Ulead Media Studio, Adobe Photoshop 7.0, Corel Draw.
- **Web Development:** HTML, ASP, ASP.NET (C#), Macromedia Dreamweaver MX, Macromedia Contribute 3
- **Platforms:** MS DOS, Windows 9x /NT 4.0 /2k /Server 2k3 /XP, Mandrake Linux 9.1
- **Interests:** Signal Processing, Digital Communication & Wireless Systems, Networking, Web Dev., Database Mngt.

## COCURRICULAR & EXTRACURRICULAR ACTIVITIES

- **Executive Member, Society of Photo-Optical Instrumentation Engineers** GIKI Student Chapter
- **Member, Publicity Team** from SPIE for collaboration in organizing **Open House 2004 & 2005**
- **Administrator, GIKI Media Club Mini-site**, a sub-site of GIKI web site
- **Implemented the FES GIKI course test-website** using Moodle & EasyPHP 1.7
- **Volunteered** for the SOPHEP event Test-Drive 2004 at GIKI, for promotion of higher education in Pakistan
- **Participated** in tape-tennis cricket tournaments, a 3-on-3 volleyball tournament and a Science Comp. at GIKI
- **Member, Amynabad Scouts**, Karachi & **Amynabad Flute Band**, Karachi (side-drummer)
- **Member, Editorial board** of a quarterly newsletter at The Oasys School (A-Levels)
- **Volunteered** for the **FOCUS Humanitarian Assistance, Pakistan** by collecting funds for Afghan Refugees

## AWARDS & ACHIEVEMENTS

- Received the **Dean's Honor Roll** for 2<sup>nd</sup> and 3<sup>rd</sup> semester
- Awarded the **Aga Khan Education Services, Pakistan Scholarship** for undergraduate studies at GIKI.
- **Single wicket winner** and **Member of the Winning squad** of **Inter-regional six-aside tournament**, organized by Amynabad Youth & Sports Board, Karachi in 1999
- **Member of the Winning squad** of **Inter-House Volleyball Tournament** at PPS (O-Levels)

## SHOAIB ALI

36-F, Sarfraz Rafiqui Road, Askari Flats, Lahore Cantt, Lahore  
Mobile # 0301-4366267, Email: shoaib\_ali01@hotmail.com

### OBJECTIVE:

To work in a highly professional and competitive environment where I can learn and gain practical experience that will help me improve my technical and managerial skills.

### EDUCATION:

**Ghulam Ishaq Khan Institute of Engineering Sciences & Technology** (2002-Present)

Senior (4<sup>th</sup> year), BS in Computer System Engineering,

Expected date of graduation: May 2006.

CGPA 2.70

### PAF College Lahore

Intermediate (Inter Computer Science)

(2000-2002)

### Garrison Academy, Lahore

Matriculation

(April 2000)

### FINAL YEAR PROJECT:

Design and implementation of an Iris Identification System based on adaptive thresholding. The 'Iris Patterns' are used as the unique biometric identification feature which are obtained through different algorithms of segmentation, normalization and feature encoding. The main tools used are MATLAB 7.0 and MS Access.

### WORK EXPERIENCE:

Worked as an internee at Nortel Networks for six weeks where I learnt and practiced the planning and optimization of sites.

### PROJECTS:

- Implemented an Answer Sheet Checking System in Mat lab 6.5.
- Developed a Teacher-Student web-based Application connecting it with MS Access.
- Designed a compiler as a semester project of Compilation Techniques.
- Implemented a Map Route Finder as an AI project.
- Developed an Engineering Economy Problem Solving Software.
- Developed Program Scheduler in Visual C++.
- Scientific Calculator in Turbo C++ using Graphics.
- Developed A Hospital Management System Software using OOP.
- Implemented A Digital Clock using Micro Controller.
- Implemented SAP (Simple as Possible) Computer Architecture Design.
- Implemented A Sorting Software using Data Structures.
- Prepared a technical report on Roles of Material in Computer.

### PROFESSIONAL SKILLS:

- **Languages:** Turbo C++, Visual C++, HTML, Java and C-Sharp.
- **Tools:** MATLAB 6.5, Prolog, Rational Rose, Microsoft Access, Corel Draw, Microsoft Visio, Microsoft Project Manager.
- **Operating System:** Windows 9X, Windows 2000, Windows XP, Windows 2003 Server, LINUX.
- Expert in Web Development Areas.

### AWARDS AND ACHIEVEMENTS:

- Organized an All Pakistan Workshop on Interview Techniques and Time Management with SOPHEP.
- Stood 2<sup>nd</sup> in E-Commerce (3 month's duration) Course by securing 88% marks.
- Got Admission in all three Top Ranked Engineering Institutions in Pakistan (GIKI, FAST, NUST).
- Introduced the concept of League Soccer in GIKI along with Football Club of GIKI.

### EXTRA-CURRICULAR ACTIVITIES:

- Organized Member of the Football Club of GIKI.
- Member of GIKI Football Team.
- General Secretary of SOPHEP GIKI Student Chapter (Society of Promotion of Higher Education in Pakistan).

### INTERESTS:

Chess, sports especially soccer and cricket, movies.

# SYED MUHAMMAD ZUBAIR

**Present Address:**

Faculty of Computer Engineering, GIK Institute  
Topi 23460, District Swabi, NWFP, Pakistan  
PH: 0938-71858-2407, Mob: 0345 832 1067  
Email: [zubair\\_999@hotmail.com](mailto:zubair_999@hotmail.com)

**Permanent Address:**

Ghaznavi Flour Mills  
Sirki Road, Quetta

**OBJECTIVE**

To observe and learn practical application of my knowledge in computer science field by working with a dynamic organization.

**EDUCATION**

2002-2006	BS IN COMPUTER ENGINEERING Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi CGPA: 3.07/4.00
2000-2002	F. Sc. (General-Science), FazleHaq College Mardan A Grade: 843/1100
1998-2000	Cambridge O-Levels, FazleHaq College Mardan 4 A's, 3 B's.

**INTERNSHIP (2005): EMMACULATE SOLUTIONS, KARACHI**

8 weeks internship. Worked in VB and mysql. Worked in developing projects on Reporting System and Credit Card Image Cropping System.

**FINAL YEAR PROJECT**

**AUDIO VISUAL SPEECH RECOGNITION SYSTEM:** Developing a system that will take an audio and a video signal of speech as input and will convert the speech into text. The development is done using MATLAB 6.5.

**SEMESTER PROJECTS**

Course	Project Title	Dev. Environment
Digital Image Processing	Speed Estimation Using Non-calibrated Cameras	MATLAB
CCNet	Linux FTP Client	Socket Programming in Linux
Artificial Intelligence	Optical Character Recognition using ANN	Matlab
Databases 1	Network Community Forum.	PHP, MySQL
Microprocessor Interfacing	Automated Home System and Control of Appliances	Assembly Language, C++
OO Programming	Cricket Tournament Scheduler & Scorer	C++.
Data structure and Algorithms	Runtime Evaluation of an expression	C++
Intensive Programming	LAN Enumerator	VC

**TECHNICAL SKILLS**

- **LANGUAGES/TOOLS:** VC++, C++, Rational Rose, MATLAB, Prolog, OPNet IT Guru 9.1.
- **PLATFORMS:** Windows, Red Hat Linux

**ACHIEVEMENTS**

- Governor's Gold Medal for securing 1<sup>st</sup> position in F. Sc (General Science), BISE, Mardan.
- Balochistan Govt. Merit Scholarship for Graduation.
- Silver Medal in All Pak (Elite and Cadet Colleges) English essay writing competition Cadet College Kohat (2000-2001).
- BISE Mardan Merit Scholarship in HSSC Annual Examinations 2002.
- Position Holder throughout Academic career.
- Declared Best Urdu Essay Writer for the year 2001-2002, FazleHaq College, Mardan.
- Declared Best English Essay Writer for the year 2000-2001, FazleHaq College, Mardan.

**CO-CURRICULAR ACTIVITIES**

- Editor of college magazine.
- Member of Essay writing team.
- Captain, Fazlehaq College Cricket team.
- Captain, FCSE Cricket team.

# SYED MUJTABA HUSSAIN SHAH

Faculty of Computer Science & Engineering,  
Ghulam Ishaq Khan Institute Topi, Pakistan

## Objective:

I want to enhance and practically apply my skills while working in a dynamic and a visionary environment, and strive to as much possible perfection in the field of Computer Science.

## Educational Background:

<b>F.Sc Pre-Eng</b>	Marks: 887/1100	Islamia College Peshawar	[2000 to 2002]
<b>B.S Computer System Engineering</b> (Currently)	CGPA: 3.04/4.00	GIK Institute, Topi	[2002 to 2006]

## Semester Projects:

<u>Course</u>	<u>Project</u>	<u>Environment</u>
<b>Data Structures:</b>	Peer-to- peer LAN Chat Software	Visual Studio .NET (C++)
<b>Computer Architecture:</b>	Implementation of a Simple as Possible Computer [SAP-I]	Combinational Logic
<b>Object Oriented Programming:</b>	Implementation of a Database	C++
<b>Digital Image Processing:</b>	Speed Estimation of a moving object using un-calibrated camera	Matlab
<b>Microprocessors Interfacing:</b>	Automated Home System	Microcontroller, C++

## Final Year Project:

### AUDIO VISUAL SPEECH RECOGNITION SYSTEM:

a system that will take an audio and a video signal of speech as input and will interpret the speech and convert it into text. The development is done using MATLAB 6.5. and Visual C.NET, Intel's AVCSR Toolkit is used for mouth tracking. Artificial Neural Nets is used for designing the pattern classifier.

## Technical Skills:

### Languages/Tools:

C#, C++, Visual C++, Matlab, Open GL, Microsoft Office (Word, Excel, Access etc.), SQL, Oracle, Maya, OPNet IT Guru 9.1 (a network design and analysis software), Windows 2003 server and Linux system administration

### Platforms:

Microsoft Windows (98, 2000, XP, Server 2003), Mandrake Linux 9.0

## Internship:

Interned in **Emmaculate Solutions** and worked in two of their professional projects.

-**Credit Card Forms scanning System** for UBL.

-**Call Reporting System** for a French Pharmaceutical Company

## Extracurricular Activities:

-Captain School Volley Ball and Basket Ball teams

-Won school's Annual Volley Ball and Basket Ball Championships.

## Contact:

### Home Address:

Syed Mujtaba Hussain s/o Fahim Dil Shah  
Street No. 1, backside charsadda bus stand,  
Beside PBS filling station, Peshawar.

**Home Phone: 091-2040685**

**Cell Phone : 0300-9017894**

**Email: [smujtabas@hotmail.com](mailto:smujtabas@hotmail.com)**

### Institute Hostel Address (Academic Periods):

Room# 99, Hostel 7, GIK Institute  
Topi 23460, District Swabi, NWFP, Pakistan.

## SYED YASIR SHABBIR

### Present Address:

Faculty of Computer Engineering, GIK Institute  
Topi 23460, District Swabi, NWFP, Pakistan.  
PH: 0938-271858-2407  
Email: u2002168@giki.edu.pk

### Permanent Address:

House No 3, St: # 3  
Al-Gillan town, D.I.Khan.  
Mobile #: 0300-9092636  
Email: syasirshabbir@gmail.com

### OBJECTIVE

To convert all my theoretical knowledge into practical form and enhance my technical as well as managerial skills while being in a reputable, dynamic and competitive organization.

### EDUCATION

2002-Till date

#### BS IN COMPUTER SYSTEM ENGINEERING

Ghulam Ishaq Khan Institute of Engineering Sciences & Technology,  
Topi. GPA: 2.93/4.00

1998-2000

#### F. Sc. (PRE-ENGINEERING)

WENSAM College D.I.Khan.

Marks: 884/1100

### WORK EXPERIENCE

Designed and Analyzed the Credit Card Imaging system for UBL and Critically Analyzed a country wide data base of a pharmaceutical company while working with Emmaculate solutions as an internee.

### FINAL YEAR PROJECT

#### Design and Implementation of Transport layers and security mechanism in Mandala.

Mandala is a **java** framework for dynamic distribution of objects.

- To customize Mandala for UDP (using New I/O for performance boost), XmlRPC (to cross firewalls) and JToe – An object layer (to use simple and efficient transportation).
- Also research for the appropriate Security mechanism for Mandala

### SEMESTER PROJECTS

#### COURSE

#### PROJECT TITLE

#### ENVIRONMENT

Intro to Computing	Graphical Cricket Averaging Calculator	C++
Intensive Programming	Small Database for Packaging Company	Visual C++
Data Structure	Implementation of Traveling salesman problem	C++
OO Programming	Implementation of RDBMS	C++, SQL
Digital Image Processing	Digital Image Filtering in Frequency Domain	MATLAB
Engineering Economy	Economical Analysis of different alternatives	C++
Microprocessor Interfacing	TCP/IP in Embedded systems	Assembly, C
Data Bases	Online Music Library	MS Access,
ASP		
Computer Networking	FTP Client	C

### TECHNICAL SKILLS

- Certified in Flash MX.
- Certified Network Administrator by *INNOVA IT*.
- Intensive Skills in Distributed and Network Programming (Java).

#### LANGUAGES/TOOLS:

Java, C/C++, VC++, SQL, Oracle, Rational Rose, MATLAB,  
Prolog, OpenGL, OPNet IT GURU 9.1, ETHEREAL

### ACHIEVEMENTS/ACTIVITIES

- *Position Holder* in F.Sc (Pre-Eng) BISE BUNNU.
- *Executive Member* of GIKI Cricket Council.
- Arranged "*Softcom 2003*" and "*UGX*" All Pakistan E-Gamming Competition as a Team Member.
- *Director* and *Actor* of couple of Comedy Plays in Intra GIKI Drama Competitions.
- *Best Script writer* of a comedy play in Intra GIKI Drama Competition 2005.
- *Performed a Mime* in All Pakistan drama competition "Alhamra" & "Art Gala 2004".
- *Captain of GIKI Tape Ball Cricket Team* in couple of Sports Fixture.
- *Best Bowler* of 17<sup>th</sup> GCC intra GIKI tape ball tournament
- *Captain* of hostel's Football Team.

### REFERENCES

Zubair Kamal. Project Manager, Emmaculate Solutions Karachi. Ph #: 021-4559613

# TALHA AMJAD AZIZ KHAN

## OBJECTIVE

To hone my managerial, technical and leadership abilities by working with a team of highly motivated professionals in a challenging environment

## EDUCATION

2002-2006	<b>Ghulam Ishaq Khan Institute of Engineering Sciences &amp; Technology, Topi.</b> <b>BS IN COMPUTER SYSTEM ENGINEERING</b>
2000-2002	F. Sc. ( <b>PRE-ENGINEERING</b> ) Islamia College Peshawar.

## FINAL YEAR PROJECT: DEVELOPMENT OF WIDE AREA NETWORK FOR PIFRA

**Project To Improve Financial Reporting And Auditing (PIFRA)** is a project to strengthen the accountability process in Pakistan. We determined a WAN solution that was most appropriate for PIFRA, & assisted in its implementation.

## WORK EXPERIENCE

- **Ufone MSC** *(Internship, Summer 2005)*
  - Got an understanding of the working of R&T Department.
  - Studied the **Ufone G.S.M. System**, Visited **Ufone Sites**, Performed an **A.T.P.**
- **Unilever Pakistan** *(Internship, Summer 2004)*
  - Fixed a Database software problem that the company was facing
  - Helped to improve the productivity of a number of Brands..
  - Worked with the sales team at Unilever Multan.

## SEMESTER PROJECTS

Course	Project Title	Dev. Environment
Digital Comm Systems	A Study on comm. technologies used in TV sets	
Satellite & Mobile Comm.		
Computer Communication and Networks	1)-Security auditing in Networked Systems 2)-Development of and FTP client for Linux based systems	Linux,, Window 2003 serv er
Databases	Course Registration System	Visual.net, SQL Server
Artificial Intelligence	Character recognition using perceptron learning	Matlab
Digital Image Processing	Advanced Graphic Suite	Visual Basic
Engineering Economy	A program to calculate b/cost ratio of a public project	C++
OO Programming	Developed & Designed a Network search Software	Rational Rose, C++

## TECHNICAL SKILLS

**LANGUAGES/TOOLS:** VC++, C++, LISP ,VB, OpenGL, SQL, Ms Access ,Ms SQL Server, My Sql, Rational Rose, Macromedia Contribute, MATLAB, Prolog, Ethereal (A network protocol analyzer) , OPNet IT Guru 9.1(a network design and analysis software) , Linux , Windows 2003 server Administration .

## ACHIEVEMENTS/POSITIONS HELD

- **President** GIKI Media Club
- **Vice President** GIKI Naqsh Arts Society
- **In-charge Public Relations** GIKI Web team.
- **In-Charge** support team at GIKI 10 year Celebrations.
- **Event Coordinator** Intra GIKI Video Competition 2004 & Video Competition 2005.
- **Chief Organizer** Entertainment Night Softcom 2004, Softcom 2005 & Naqsh Art Gala 2005.
- **Best Speed Programmer** 2004.
- **Member** of Inter GIKI Parliamentary style debates winning team 2004
- **In-Charge** Media & Creative team for welcome 2004.

# U M A R A R S H A D R A J A

## OBJECTIVE

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A highly enthusiastic team-player aspiring to work with a team of motivated professionals in a challenging environment to augment my management, technical and leadership abilities.

## EDUCATION

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- **GIK Institute of Engineering Sciences & Technology**, Topi, Pakistan.  
*Bachelor of Science in Computer System Engineering.* (2002-2006 expected)
- **City School, Capital Campus**, Islamabad, Pakistan.  
*A-levels, Cambridge University.* (2000-2002)

## WORKING EXPERIENCE

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- **DVcom Marketing Department** (Internship, Summer 2005)  
-Set up online Credit Card purchase Mechanism.  
-Set up Pakistan's first LDI pre-select product.
- **Ufone Call Center** (Internship, Winter 2003)  
Trained new call agents on Ufone's GPRS System.
- **Network Administrator**  
Administered Hostel Network Comprising 100 terminals and a central Linux based server.

## PROJECTS

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- **Final Year Project:** Video Transmission using a CDMA based link
- **Engineering Economy:** VB software that provides analytical study of economic trends and decisions.
- **Digital Image Processing:** Image Encryption Software.
- **Microprocessor Interfacing:** Marquee Display using an ATMEL 89C52 Microcontroller.
- **Intensive Programming:** (Enigma) LAN chat software implemented in Visual C++.
- **Project Management:** Setting up a nationwide entrepreneurship network.
- **Major Courses:** Satellite & Mobile Comm., Digital Communication Systems, Industrial Management

## PROFESSIONAL SKILLS

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- **Programming Languages:** C/C++, Prolog, Matlab, VBasic, Visual C++, SQL, Assembly Language (68000 Motorola Processor).
- **Tools:** OPNet IT Guru 9.1, ProDesktop 2001, Rational Rose, MS Office, MS-Visio, Ethereal.
- **Platforms:** Windows 9x/2k/xp, SuSe Linux 9.0, Redhat Linux.

## EXTRA-CURRICULAR ACTIVITIES

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- **Coordinator** Softcom 2005(All Pakistan Software Competition held at GIKI).
- **Chief Organizer** APEC 2005 (All Pakistan Engineering Conference).
- **General Secretary** Association of Computing Machinery, GIKI Student Chapter.
- **General Secretary Public Relations** Institute of Electrical Engineers, GIKI Student Chapter.
- **Executive Member** NETRONiX (GIKI's Networking Society) and GIKI Adventure Club.
- **Incharge Liaison** Softcom, 2004.
- **Anchored** ACM Intra-GIKI Quiz Competition.
- Member Organizing Committee for Shutup'n'play (Intra-GIKI e-gaming Competition).
- **Sports:** Horse-Riding & Swimming.

## AWARDS/ACHIEVEMENTS

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- Selected among Top 10 projects at **Shell Business Idea Fair**, 2005.
- Represented GIKI at **4th Youth Theatre Festival**, Rafi Peer Workshop (Alhamra Lhr, 2004).
- Attended **Young Leaders Conference** organized by KZR & School of Leadership (Karachi, 2002).
- **Co-Director** for Best Drama at GIKI Drama Competition 2005 (PURE).

(References available on request)



# Usman Pervaiz

## PERSONAL INFORMATION

Permanent Address: House 707, Street 74, G-10/4, Islamabad.  
Present Address: Room # 103, Hostel 5, GIKI Topi, District Swabi NWFP, Pakistan  
Phone No: +92-300-8355262, 051-2108251, 051-2297387.  
E-mail: [usman\\_pervaiz@hotmail.com](mailto:usman_pervaiz@hotmail.com)  
[u2002183@giki.edu.pk](mailto:u2002183@giki.edu.pk)

## OBJECTIVE

To apply the technical, management and decision making skills got during a six semester period acquired at a few of the best institutions of the country and also to gain industry experience.

## EDUCATIONAL HISTORY

**2002 – May 2006**    **GIK Institute of Engineering Sciences & Technology, Topi, Pakistan.**  
BS Computer Systems Engineering - 8<sup>th</sup> semester; CGPA 2.70  
**Islamabad Model College for Boys F-8/4,** F-Sc Pre-Engineering; grade A.  
**Islamabad Model College for Boys F-8/4,** Matric; grade A.

## SENIOR DESIGN PROJECT

My FYP is an exciting new dimension of research. It's an attempt to implement bandwidth management techniques using fuzzy logic. We took two standard bandwidth management techniques, which had the signs of putting AI into them. Then, we used fuzzy logic to make these techniques adaptive and showed our results on OMNet++.

## EXPERIENCE

**DVCOM Limited** Internee, Summer 2005  
Developed a Real time Database application for the collection, prioritizing and storing of dynamic CDR's in the database. I implemented this application using ASP.net and MS SQL Server 2000. I worked in DVCom's NSS Department.

**Carrier Telephone Industries (CTI)** Internee, Summer 2005  
Worked on CTI's CFMS (Customer Fault Management System). This is a database application which was implemented using ASP.net and MS SQL Server. I worked in CTI's R&D Department.

## SEMESTER PROJECTS

- **Digital Image Processing:** Implementation of JPEG Compression Algorithm using Matlab.
- **Computer Communications and Networks:** Implementation of FTP client using socket programming.
- **Object Oriented Programming (OOP):** Implementation of Monopoly Game using C#.
- **Data Structures & Algorithms:** Implementation of Skip Lists using C++.
- **Databases:** Implementation of Q&A based Hardware Troubleshooter using ASP and MS SQL server.
- **Microprocessor Interfacing:** Implementation of Digital Clock.
- **Engineering Economy:** Implementation of Graphical User Calculator for Economy using C#.
- **Intensive Programming Lab:** Implementation of Student Record System for entrance test using VC 6.0.
- **Artificial Intelligence:** An adaptive Q&A based system giving advice to the user given certain criteria.
- **Computer Architecture:** Implementation of SAP (Simple as Possible) computer.

## SKILLS

- **Programming Skills:** C/C++, VC++ (MFC), C#, Java, Linux Shell programming, and Prolog.
- **Network Administration:** Windows/Linux system administration, network administration, OPNet IT Guru 9.1, Ethereal, OMNet++.
- **Modeling Techniques:** UML, Rational Rose, MS Visio, Pro Desktop 2001.
- **Databases:** My SQL, MS SQL, Oracle 8i, MS Access, ASP.net.
- **Computer Graphics:** OpenGL.
- **Compilers & Applications:** MS Visual Studio .NET, MATLAB, MS Project, MS Office.
- **Communication Skills:** Presentation Skills, Technical Report and Letter Writing, Group work, communication and social skills.
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## COCURRICULAR ACTIVITIES

- Member of management team as a volunteer in All Pak. Software and Multimedia competition (Softcom) in 2003.
- Member of management team of 7<sup>th</sup> Annual Convocation at GIKI.

# WAJIHA SAID

**Permanent Address:** H#203, St. # 25, Sector F-11/2, Islamabad, Pakistan.

**Phone:** +92-300-5002366

**Email:** wajiha.said@gmail.com

## OBJECTIVE

Work in a dynamic and creative environment with a team of skilled and motivated professionals, so I can gain valuable professional experience as well as exploit my potential to the fullest.

## EDUCATION

**GIK Institute of Engineering Sciences and Technology, Topi, Pakistan**

BS – Computer System Engineering (Expected graduation in May 2006) **CGPA** 3.30/4.00

**F.G. College for Women F-7/2, Islamabad, Pakistan**

Higher Secondary School Certificate (2002)

**Grade A** (874/1100)

## WORK EXPERIENCE

**Procter & Gamble Pakistan (Pvt) Limited**  
2005

SUMMER INTERNSHIP: 6<sup>th</sup> Jun – 12<sup>th</sup> Aug

- MS Access (MS Jet SQL)/Platinum (Pervasive SQL V8) based replenishment system
- ASP.NET (VB.NET)/MS SQL server based system for inventory tracking at the warehouse

## TECHNICAL SKILLS

- **Programming:** C/C++, VC++, VB, VB.NET, ASP.NET, Verilog, SQL, Prolog, Linux system programming in C, LINUX socket programming, Linux scripting, OpenGL
- **Programming Platforms:** Dos, Windows, Linux
- **Operating Systems:** Windows (98, XP, Server 2003), Linux (Red Hat 9.0, Mandrake 9.0)
- **Application Packages:** MS Office, MS Visio, MS Project, MS SQL Server, MYSQL, Oracle, Rational Rose, Macromedia Flash MX, Mathworks MATLAB7, OPNet IT Guru 9.1, Ethereal, SynapticCAD, Altera MAX+PLUS II, PTC ProDESKTOP 2001
- Courses in Communication Skills, Technical Report Writing, Engineering Economy, Industrial Management, Project Management and Total Quality Management

## PROJECTS

- **Lip Synchronization with an audio stream** as Final Year Project
- Implementation of a **Student Transcript Database** using SQL and php
- **Gender Recognition** using Artificial Neural Networks in MATLAB7
- Development of an **FTP client for Linux** based systems
- Design, implementation and analysis of **datapath logic cells** using verilog and Altera MAX+PLUS II
- **Mouse-a-tron:** A proximity sensing robot using ATMEL 89C51 Microcontroller
- **iSpy:** Digital image processing project in MATLAB involving motion detection in a video sequence
- Implementation of Simple As Possible Computer (SAP)
- **Eco-culator:** A calculator in VB for the calculating effective interest rates in engineering economy
- **AutoBank:** A banking database in VC++, incorporating basic banking functionality

## AWARDS & EXTRA CURRICULAR ACTIVITIES

- Dean's Honour Roll for 3.5+ GPA
- Executive Member of Following Societies
  - CDES, the Cultural Dramatics and Entertainment Society of GIKI
  - NETRONiX, Network Administrator of the Girls' Hostel: responsible for the up-gradation and maintenance of the operational network, for 50+ workstations and for one LINUX based server
- Part of organizing teams of three All Pakistan Drama Festivals in GIKI
- Member organizing team of the two All Pakistan e-Gaming events in GIKI

# YASIR LATIF

## Present Address:

Room 38, Hostel 3, GIK Institute  
Topi 23460, District Swabi, NWFP, Pakistan  
Email: yasir.latif@gmail.com

## Permanent Address:

H- 133, Street 9, Sector H-3,  
Phase 2, Hayat Abad, Peshawar  
PH: 0300-9018389

## OBJECTIVE

I aspire to fuse academic knowledge with practical experience by contributing constructively in a professional environment while enhancing my engineering and interpersonal skills

## EDUCATION

2002-till date	BS IN COMPUTER SYSTEM ENGINEERING Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi CGPA: 3.52/4.00 [at the end of 7 <sup>th</sup> Semester]
2000-2002	F. Sc. [PRE-ENGINEERING] Cadet College Kohat. First in Board, Marks: 929/1100.
1998-2002	SSC Examination Cadet College Kohat Marks: 754/850

## SURVEILLANCE AND HAZARD DETECTION FOR A NUCLEAR POWER PLANT

Worked in the field of "routing in wireless sensor networks" and implemented the GRAdient Broadcast protocol, using NS-2, for use in a nuclear power plant. Also researched on ways of making routing protocols more efficient.

## EXPERIENCE

### • UNDP PAKISTAN [INTERNSHIP-2005]

Worked for two months on three projects for United Nation Development Program with primary focus on Web Development, MS SQL Server and VB.NET

### • ULTIMUS PAKISTAN [INTERNSHIP-2004]

Worked 9 weeks on the automation of various administrative and managerial processes of GIKI using Ultimus BPM Studio 6

## SEMESTER PROJECTS

Course	Project Title	Dev. Environment
Digital Image Processing	Speed Estimation Using Non-calibrated Cameras	MATLAB
Microprocessor Interfacing	Automated Home System and Control of Appliances	Assembly Language, C++
OO Programming	GUI Library	C++.
Data structure and Algorithms	File indexing	C++
Databases I	E-Pal: an online community	PHP, MS SQL server
Computer Communication	FTP client	Socket Programming In
Networks		Linux
Artificial Intelligence	Handwritten character recognition	Matlab Neural Nets
Intensive Programming	Traveling Salesman Problem	VC++

## TECHNICAL SKILLS

- Participated in 6 weeks short course on CCNA 2.0
- Attended and cleared a short course on CDMA by QUALCOMM
- **LANGUAGES/TOOLS:** VC .NET, VB, SQL, Rational Rose, MATLAB, Prolog, Ultimus BPM Studio, Verilog, Linux Administration, MS Windows 2003 server Administration, Ethereal, OPNet IT Guru, Open CV
- **PLATFORMS:** Windows, Linux

## ACHIEVEMENTS

- Governor's Gold Medal for securing 1<sup>st</sup> position in F. Sc (Pre-Engineering), BISE, Kohat
- Best Student for the year 2001-2002, Cadet College Kohat
- Dean's Honor Roll for 1<sup>st</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 6<sup>th</sup> Semesters
- Awarded Merit scholarships by Frontier Education Foundation (FEF) and BISE (Kohat)
- Among top ten in the SSC Examination, BISE (Peshawar)
- Represented Cadet College Kohat at 3<sup>rd</sup> All Pak Science Fair, GIKI

## CO-CURRICULAR ACTIVITIES

- Editor Urdu Section, Horizon GIKI
- Declared Best English Story Writer for 2005 by Horizon, GIKI
- Declared Best Urdu Essay Writer for 2003 by Horizon, GIKI.

# ZEESHAN ARIF SAEED

Present Address:  
Room # 89, Hostel # 3, GIK Institute  
Topi 23460, District Swabi, NWFP, Pakistan.

Permanent Address:  
465-A, Block 7/8,  
C.P. Berar Society,  
Karachi (74800).  
PH: 0300-3599402, 021-4941227, 021-4923849

Email: [zeesh49@yahoo.com](mailto:zeesh49@yahoo.com), [zeesh49@hotmail.com](mailto:zeesh49@hotmail.com).

## OBJECTIVE

**To work and be a part of an organization where my knowledge and interpersonal skills get the opportunity to grow. To work in my complete intellectual and social capacity so I could enjoy my work and utilize my skills.**

## EDUCATION

2002-Present	BS IN COMPUTER SYSTEM ENGINEERING (Currently in 8 <sup>th</sup> semester) Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Topi. GPA: 2.14 (Graduating in May 2006)
2000-2002	A-Levels (Privately)-2A's and 1D

## SEMESTER PROJECTS

- **Music Sound Classification, Segmentation, Recognition and Instrument Identification using Signal Processing and Neural Networks.**

Software which:

1. Recognizes guitar notes (sounds) played and inputted directly through mic.
2. Recognizes Music Genres.
3. De-mixes the input sound file into those of individual musical instruments played.
4. Uses Neural Network for sound recognition

## EXPERIENCE

### Telenor Pakistan

**Intern, May 30<sup>th</sup>-Aug 19, 2005**

- Worked in the Technical - Radio Frequency (RF) Department
- Developed a Microsoft Access Database down to scripting for generating customized reports for the department
- Worked on and developed a parallel of SPOTS in MS Access - A Siemens software for generating reports for real time Network stats monitoring
- Did extensive drive testing and network analysis and quite familiar with TEMS
- Familiar with issues of Network Planning and optimization

## SEMESTER PROJECTS

- **Implementation of certain aspects and functions of a compiler in C++**
- **Implemented the LEACH Wireless Sensor Networks protocol in C++ -**  
LEACH: Low Energy Adaptive Clustering Hierarchy
- **Implemented a prototype of a Wireless Sensor Network in C++ -**  
A network consisting of 50 nodes self-organizing nodes according to coverage and topology requirements
- **Implemented a NASA Photo journal, Mission Profile and Telescope/Instrument Description databases in Microsoft Access**
- **Implemented the FTP protocol**
- **Network Design Project -** OPNET IT Guru (Ac. Edition).
- **Engineering Economy Problem Solver** – Calculates a series of Engineering Economy Problems
- **Optimal Path Finder**
- **Object Tracking In Video** - With Still Background and complete functionality in MATLAB 7.0.
- **Solitaire** – A single Player Cards Game using MS Visual C++ 6.0.

## SKILLS

- MS Visual C++ 6.0, C#, MATLAB, Prolog, Oracle, VB 6.0, Borland/Turbo C++.
- Rational Rose, MS Office including Microsoft Access, OPNET IT Guru, Ethereal.
- Group Work, good communication and managerial skills.
- Security auditing in Networked Systems, Linux system administration, Windows 2003 Server Administration

## ACHIEVEMENTS & EXTRA-CURRICULAR ACTIVITIES

- Playing guitar
- Reading books and listening to music
- Competed at the University level in Table Tennis singles matches.
- Played 4 years of hard-ball cricket at both nets and matches.
- Participated in the 4<sup>th</sup> LDS elocution contest with participants from SE Asia.

# SANA NASEER

**Address:** 350, Street 15, Chaklala Scheme 3, Rawalpindi Cantt, Pakistan.

**Phone:** 00 92 300 9876518 , +92 51 5504482

**E-mail:** [sananaseer17@hotmail.com](mailto:sananaseer17@hotmail.com)

<b>Objective</b>	To work in an innovative and challenging environment and apply the knowledge of Computer Science gained during studies to practical fields and to further augment it in the process.
<b>Education</b>	<p><b>GIK Institute of Engineering Sciences &amp; Technology Topi, Pakistan</b>  BS in Computer Systems Engineering Expected Graduation: May, 2006  Currently enrolled in 8<sup>th</sup> semester CGPA: 3.21 on the scale of 4.00</p> <p><b>Army Public College Sialkot, Pakistan</b>  Higher Secondary School Certificate Marks Obtained  858/1100</p> <p><b>PAF Inter College Kohat, Pakistan</b>  Secondary School Certificate Marks Obtained 727/850</p>
<b>Major Degree Courses</b>	<ul style="list-style-type: none"> <li>Satellite and Mobile Communications</li> <li>Communication Systems</li> <li>Signals and Systems</li> <li>Digital Image Processing</li> <li>Computer Communications and Networking</li> <li>Artificial Intelligence and Neural Networks</li> </ul>
<b>Skills</b>	<ul style="list-style-type: none"> <li><b>Languages.</b> C/C++, C#, Linux system and network programming, Visual C++, Visual Basic, Prolog, Oracle, Assembly for Motorola 68000, SQL, MATLAB, Open CV.</li> <li><b>Tools.</b> Office 2000/XP, MS Access, MS Visio, MS Project, Pro-Engineer, OPNET IT Guru, Etherreal, Rational Rose, Verilog HDL.</li> <li><b>Platforms.</b> DOS, Windows 98/NT/2000/XP/Server 2003, Red Hat Linux.</li> <li><b>Others.</b> Presentation skills, Technical Report writing, Communication skills.</li> </ul>
<b>Experience</b>	<ul style="list-style-type: none"> <li>Eight weeks internship at Carrier Telephone Industries (CTI) Islamabad.</li> <li>Nine weeks internship at GIK Institute in collaboration with Ultimius Pakistan Limited.</li> <li>Assisted in conducting Intensive Programming Lab at GIKI.</li> </ul>
<b>Projects</b>	<ul style="list-style-type: none"> <li><b>Senior Design Project</b> <ul style="list-style-type: none"> <li>Development of a simple, inexpensive and efficient <b>Robot Colony for detecting chemical spill</b> in any environment. The robots have the ability to communicate with fellow robots in a highly efficient manner and model swarm like behaviour. The project is currently under progress.</li> </ul> </li> <li><b>Field Projects</b> <ul style="list-style-type: none"> <li><b>Automation of the management procedures</b> of Sales Department of Carrier Telephone Industries.</li> <li><b>Automation of administrative and management procedures</b> of GIK Institute using Ultimius BPM Suite and establishment of Active Directory control.</li> <li><b>Packages Management System</b> designed for ORION Star Packages (Pvt). Limited Rawalpindi.</li> </ul> </li> <li><b>Semester Projects</b> <ul style="list-style-type: none"> <li>Implementation of <b>Automated FTP Client</b> for Linux based systems.</li> <li>Design of an <b>Optimum Network</b> using OPNET IT Guru (Acc. Edition).</li> <li><b>Fingerprint Verification Tool</b> using Neural Networks and Wavelets.</li> <li>A secure, robust multimedia <b>Watermarking Tool</b> using Discrete Frequency Transformations.</li> <li>Hardware implementation of <b>Digital Temperature Control System</b> using ATMEL 89C4051 Microcontroller.</li> <li><b>Voice Messaging on Local Area Network</b> using JBuilder5.</li> <li>Simulation of <b>OS Task scheduler</b> in C++.</li> <li>Implementation of <b>Graphical Economic Calculator</b> in Visual Basic.</li> </ul> </li> </ul>
<b>Miscellaneous</b>	<ul style="list-style-type: none"> <li>Executive member GIKI Environmental and Awareness Society.</li> <li>Executive member Adventure Club GIKI.</li> <li>Event In charge Intra GIKI Naat Competition, 2004.</li> <li>English Editor of College magazine in Army Public College Sialkot, Pakistan.</li> </ul>