

Malik Muhammad Ali Shahid

Objective

Bring some exposure of knowledge relating Information Technology in my life to garnish my own inklings about the field

Skill Summary

Specialized in Software Engineering and Database Management Systems, currently working at Air University in dept. of Computer Science. Completed MS (Computer Engg.) with major areas in Digital Image Processing and Network Communication.

Teaching Experience

Total teaching experience: **4** years

▪ **Jan 2004 – Till now**

Working as Junior Lecturer in [Air University](#)

Subjects taught

- i. Digital Image Processing
- ii. Signals and Systems
- iii. Data Communication and Networks
- iv. Web Application Engineering
- v. Object Oriented Analysis and Design
- vi. Object Oriented Programming
- vii. Databases Management System
- viii. Advance Database Management Systems

Other Responsibilities

- Member purchase committee for HEC budget
- Evaluation and coordination with Automation System

URL: <http://www.au.edu.pk/alishahid/Main.htm>

▪ **Jul 2002 – Jan-2004**

Faculty member and development incharge [Bahria University](#)

Subjects taught

- i. Database Management Systems
- ii. Introduction to computers

Subjects assisted and Lab conduct

- i) Programming Fundamental

Other Responsibilities

- Automated Campus Management System
- Provided Information/knowledge support to Academics, Examination and Accounts
- Conducted admissions and course registrations

URL: <http://www.bci.edu.pk/bacs/malics.asp>



Teaching Experience
(Visiting)

Project Supervision

Knowledge Areas

- **Imperial Institute of Information Technology**
Subject: Database Management System (2006-Fall)
- **Urdu University**
Subject: Advance Operating Systems (2003-Spring)
- **Academic Management System**
Student group of BSE, Air University (2006-Fall)
ASP.NET, SQL-Server, WML, GPRS communication
- **Noise Cancellation using Adaptive Filter**
Student of BCS, IIIT (2006-Fall)
Based upon Adaptive filter design, Matlab
- **Eye Movement Detection**
Student of Fatima Jinah Women University (2006-Spring)
Based upon Pattern Recognition, Matlab
- **Digital Signal Processing**
Studied Signal & Systems, Advance Digital Signal Processing, Digital Signal Processing Software Design & Digital Image Processing. Also developed an encryption software using TI's TMS320C5401 DSP processor. MAZE path detection system using Digital Image Processing
- **Communication System & Networks**
Studied Computer Networks, Network System Programming & Digital Communication Systems. Also taught Data Communication & Networks at Air University. Developed Data-Link layer embedded chat software
- **Operating System**
Linux Kernel Development. System call implementations and Patch construction. Also worked in Network system programming in Linux. Hands on experience on all windowing systems
- **Computer Languages & Programming Tools**
Matlab, Verilog, Java, Visual C++, C++, Pascal
- **Databases**
ORACLE, MS SQL server, FoxPro, MS Access. Taught Database System & Advance Database Concepts
- **Web Development**
ASP, Cold Fusion, Flash, JavaScript, XML, HTML, CSS. Developed Official website of Bahria University. Official website of Computer Science dept at Air University
- **Software Engineering**
Applied and worked with software engineering models, as project manager both in Object Oriented Software design and also for Structural analyses and design. Hands on experience on UML.

Projects

University Automation Systems

Developed and implemented Student Admission System, Examination System Registration System and Student Evaluation System. The system is currently working with backend support of ORACLE 8i and empowered front-end of Developer 2000

Pearl Communication Business Management System

Worked as system analyst and project leader for business management system of Pearl Communication which encompasses sales, purchase, inventory and transparent accounts.

Bahria Colleges Budget Analysis System

Developed and maintained Budget Analysis System of Bahria Colleges using ORACLE 8i and GRAPH BUILDER 3.0.

Bahria Institute of Management & Computer Science, Islamabad official website

Leading and participating in the team managing official website of BIM&CS, Islamabad using ASP 3.0 , CSS 2.0 and standard HTML. See URL <http://www.bci.edu.pk/malics.asp>

Object Serializer

As a research project for degree award worked on serializing objects and transporting them across the network using CORBA-XML bridge backed by an Object Database

Khyber Steam Safari

Developed the online reservation system equipped with schedule and fairs management supported by complete online administration

IDEA

As a university project designed and implemented International Data Encryption Algorithm for data security and secure storage of critical data using crossbred with image

PPMS

Studied and developed power plant management system using Visual C++ and MS-Access

Quality Management

Lead the quality management team to audit a software development process

DES-CryptoSystem

Using Object-Oriented-Modeling techniques and Rational Rose 2000, developed and modeled DES-CryptoSystem while proceeding through well-define software engineering process also assuring software quality confidence level

- 2003-2006 **Center of Advance studies in Engg. M.S** Digital Signal Processing & Communication
- 1999-2002 **BAHRIA University Islamabad M.C.S** Software Engineering (Cum Laude)
- 1996-1998 **Bahauddin Zikariya University Multan B.Sc** Computer Science

Curriculum

Achievements

- **1st Position in Quiz**
Won the All Pakistan Quiz Competition occurred at OPF girls college organized by Islamic International University (IIU) Islamabad
- **3rd Position in Quiz**
Remained 3rd in the all Pakistan quiz competition occurred at Ghulam Ishaq Khan Institute(GIKI) Topi

References

- **Prof. Raza Rahim**
Fast Islamabad (National University)
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- **Fazal Wahab**
Asst Prof. (BAHRIA University)
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