

# Kamran H. Khan

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## Objective:

Excellence, quality, distinction.

## Summary:

- Excellent skills in OO analysis, design, and development/debugging; Emerging technologies, services/component based architectures, web services and app integration technologies, and attempted to distill the practical essence of SOA.
- Proven record of strong gelled teamwork and leadership. Well-organized, excellent communicator/collaborator, self-starter, quick learner, positive thinker.
- Working experience of SDLC, SEI/CMM level 2, QA processes, and its implementation.
- Able to handle project from requirements to implementation within time. Business process reengineering using innovation, creativity, and new technologies.
- Excellent problem solving and analytical skills
- Experience in project management and configuration management softwares.
- Presentations & documentation skills.
- For more information please visit my online [portfolio](#).

## Technical skills:

- Expertise: VC6/C#/Xml/Windows
- Languages: C/C++, C#
- Design: Visio/EA/Rational, Excellent UML skills
- Technologies: Webservices/SOAP/XML/XSD, .NET (ASP.NET/ADO.NET). MFC, Windows Services, Winsock/BSD, PWinCap, ActiveX, Win32, Java, JavaScript, JSP, HTML.
- DBs: SQLServer, MsAccess, Oracle/Developer2K, ErWin. Relationships, Schema Validation, De/Normalization
- OSes: Windows/NT/XP, DOS, Solaris, RedHat
- Tools: WinDebug, VS6.0, VS2K3.NET, VS2K5 Pro, Dreamweaver/Flash, Jbuilder, IISv5.0
- VMS: Subversion/TortoiseSvn, Visual SourceSafe. Config/installation
- PM tools: MS Project
- Estimation: Costar/Cocomo2
- Excellent Framework(Gui/Screens) design skills

## Professional experience:

### Assurety Consulting, Inc., Karachi.

-Mar 2006 to Present

#### *Scheduling Web Services software (Current)*

Role: Project Lead

Team Size: 4

Responsibilities: A Web Services based, Supply Chain Management solution, for United States Postal Services, ShipmentAssurety™, in support of Transportation Messaging specification v1.3/2.0 to allow

schedulers to integrate the scheduling operation with their internal planning of drop shipments and mailing content data. Following complete SDLC phases, ensuring sound engineering design, process and quality practices. Preparing project plan, functionality based project schedule, WBS docs, requirements gathering, project estimation, architecture/framework design, erd/dfd/interactions/objects all design artifacts, implementing coding practices, arranging meetings between offsite/onsite teams. Preparing team tasks, Meetings/etc. C#/Soap/Webservices/XML/SQL2005/XPPro(SP2)/MsProject/Visio.

### **Informatics Complex, Islamabad.**

-June 2002 to Feb 2006

H-8/1, Islamabad, Pakistan

#### ***IEEE 1588 PTP Implementation***

Role: Developer/Analyst

Team Size: 1

Responsibilities: Implementation of IEEE-1588 Precision Clock Synchronization Protocol for Networked Measurement & Control Systems; Used UDP multicast, for synchronizing the real-time apps in Automation. Guaranteed deterministic system behavior which makes it possible to synchronize the clocks (sub micro-second range) of different end devices over the network. C#/VC6/W2K.

#### ***Honeywell TDC3000 LCN Communication Interface***

Role: Research Analyst

Team Size: 1

Responsibilities: Engaged in the research, analysis, and design of enhancements to interface the Local Control Network with customized apps, to run real-time high-speed applications at automation and control layer for integration of complex control systems. Identified key problems, designed network architecture prototype, data communication module design. Extensive study of available products, that provides seamless integration to Honeywell's TDC3000 Local Control Network. MS Visio, PowerPoint Presentations, and Documentation.

#### ***PPC Display Builder:***

Role: Developer/Analyst

Team Size: 1

Responsibilities: Wrote a display builder that; create/modify several geometrical objects, insert bmp/gif as an object. Save as vector files (text/graphics/objects) and bitmap files, loading bitmaps as icons. Also includes, detection of objects on screen, resizing objects, rotating objects, screen-grabber, zooming, thumbnails in image list, altering an image with other images, drag-n-drop. VC6/MFC/W2K.

#### ***NetMon: Network Security Monitor:***

Role: Developer

Team Size: 1

Responsibilities: A server, a client, windows service app, and a remote backend database for main data storage of all clients. Capable of: blocking websites, report HW changes, stops any exe soft, key logger, desktop captures, rollback of all changes made within a specified amount of time, client messages/ads, client to server (admin) chat, logs of abnormal activity by the client (ftp, smtp, telnet), shutdown a client, close an app running on a client, a complete log of clients activity and desktop captures. VC6/MFC/C#/MS Access/W2K Professional.

#### ***Digital Reactivity Meter:***

Team Size: 1

Responsibilities: Wrote a Digital Reactivity Meter (DRM) for a Power Plant. Reactivity meter is used to monitor the behavior of reactivity during the startup physics testing. The computer takes data (flux and other attributes) from the instrumentation system and calculates the reactivity. Responsible for maintaining and extending an application that communicated with an embedded data acquisition HW. In addition, post-processing and analysis of acquired data. Responsible for porting algorithms developed by scientists and other engineering staff into the application. Worked closely with stakeholders to define new functionality, especially with respect to the GUI. The product needed VC++6.0, MFC, RTP, NI DAC HW, W2K/98.

***DCS Software Component:***

Role: Developer/Analyst

Team Size: 7

Responsibilities: Developed a graphical user interface, used to monitor the operating facilities(machines) having separate missions and controlling devices, monitoring all equipments and diagnostic instruments, graphical behavior for analyzing the running status of the machines; provided toolbars for calculating the machine parameters, warning alerts, and protecting the equipment when accidents happen or equipment fails. Also, online report generation to printer, plotter, and save as images, gathering selected data from local host and displaying it in graphical format. VC6.0/MFC/ActiveX/W2K.

***SunWin Communication Module:***

Role: Developer

Team Size: 1

Responsibilities: Developed communication module for a simulation app. using Winsock/BSD. Client over SunOS Solaris 5.6 and Server on W2K/SP4 Machine. Used shared-memory to send the data to main server running on W2K; which after analysis transfers the data to the connected terminals. Also added safety limit handling. Error checking and reporting capabilities of the module were also extended. VC/MFC/WinSock/W2K, GCC/BSocket/Solaris5.6.

***Analog Level Gauge:***

Team Size: 1

Responsibilities: Developed analog level gauge activex component. Displays a cylindrical glass tank that is linearly filled with a colored liquid according to the value you want to represent, which can vary in a specified range. All the geometric parameters can be customized. VC/W2K.

***Pressure Needle Gauge:***

Team Size: 1

Responsibilities: Coded a semi-circular gauge that used a needle inside color bands to display the current value within a low and high limit. Visual indicators for low and high alarm ranges are controlled by properties that allow you to change colors, ranges, and values. VC/MFC/GDI/W2K/98.

**E-Link Software Corporation (ES), Karachi.**

<http://www.elinksoftwares.com/>

December 2001 to May 2002

***Weather Forecasting System (GIS)***

Responsibilities: Wrote modules for; encoding/decoding, filtering, extracting information for temps, pilot and synoptic data, loading long/lats table, creating code matrix. Printing of any size/area on screen. Writing algorithm for drawing of ISO bars. Used raster over vector graphics for symbolic representation

(image matrix) of TEMPS, PILOT and SYNOPTIC Data on any device i.e. screen, printer, plotter, fax, etc. Wrote a Parser, Filtering, encoding and decoding of the temps, and synoptic data. Printing of the map in any format on local or networked printer as well as plotter. Basic and functional design documents, discussing, reviewing and testing with Pakistan Meteorological Department, Karachi, and with the team as well. The utilized the skills set of VC6/MFC/Winsock (TCPIP/FTP)/Extensive Printing Techniques, ASP, DHTML, W2K.

## **Academics:**

Jan 1998 – Mar 2002, four years, 3.03CGPA

BS in Computer Engineering

F.Sc., 1997: 703 Marks

Matric, 1995: 76% Marks

Sir Syed University, Karachi.

Govt. Islamia Science College, Karachi.

St. Jude's High School, Karachi.

## **Achievements and honors:**

- Competed in 12th All Pakistan Software Competition & Exhibition conducted by AQ Khan Research Labs in Islamabad.
- OnSpot programming competition in PROCOM, Fast-NU, Karachi, 2001.
- Selected as Teaching Assistant for junior semesters, in last year of engineering, 2001.
- Scholarship was offered by MoST, Govt. of Pakistan, 2000.
- Competed in first SSUET software competition, Console based game in C, JetPilot. 1998.
- Certifications of C/C++/VC++ conducted by SSUET.

## **Interests:**

Swimming, basketball, cricket, vgames. Reading literature, novels, biographies, and metaphysics. Writing poetry. Watching talk-shows, movies.

## **References:**

Professional references will be provided upon request.