



## Pankaj Goel

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I have an overall experience of around 5 years in Test Automation, Software Quality Assurance and Software testing. I have executed business critical automation testing assignments, which include detailed automation Test Planning, creation and execution of QA and testing processes, test strategies and plans, bug documentation and regression, and bug tracking system development. I have been involved in White box testing, Black box testing, Functional testing, load/stress testing using LoadRunner, Usability testing and related test methodologies, Bug Reporting, Automation of functional Test Cases in WinRunner and Test Management with TestDirector.

**I know Test Automation Tools Quick Test Professional, WinRunner, LoadRunner and Quality Center inside out having been trained and certified on these by Mercury Interactive Inc U.S.A.**  
I am also certified in Rational Suite of Test automation tools

My functional experience in Test Automation includes involvement in preparation of detailed Test Automation plan for B2C application portal, Java applications and other Win32 applications developed using Visual Basic, PowerBuilder and Delphi. I have been involved in Testing of web application, client-server, network, database and related projects on Windows. Having worked in companies like **Oracle corp., India, Adobe system, Noida and HCL Technologies, and** have a complete exposure to the testing Lifecycle of a software product and the various stages a software product goes through while in development. I have been involved in automating entire Product Testing Life Cycle (PTLC) for Oracle ERP (including Performance testing, sanity testing, system testing, certification testing and build testing.

## SUMMARY

- ***B.Tech in Electronics and communication Engg. From I.T. B.H.U.( All India Rank 1497 in IIT JEE 1998, graduated in 2002 DGPA of 8.89/10 )***
- ***Directly Trained extensively by Mercury Interactive Inc., USA (developers of WinRunner, TestDirector etc.) on 'WinRunner' and LoadRunner with add-ins like Java, WebTest, TE, Delphi, Web Test, Visual basic, ActiveX, Power Builder. Also Trained on Quick Test Professional and Test Management Tool Test Director.***

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- *Have a complete exposure of the testing Lifecycle of a software product and the various stages a software product goes through while in development. I have been involved in entire Product Testing Life Cycle (PTLC) for Oracle ERP (including sanity testing, system testing, certification testing and build testing)*
- *Prepared Automation wireframe for performance and Functional testing using WinRunner and LoadRunner*
- *Involved in Test Automation of B2C web application, which included, preparation of the Master Test Plan (MTP), Detailed Automation Test Plan (DTP) and Test Cases. This also included designing of complete testing framework that included designing scenarios for Performance testing using LoadRunner and Functional testing using WinRunner*

## EDUCATIONAL QUALIFICATION

<b>Degree</b>	<i>B.Tech in Electronics and Communication Engineering from Institute of Technology B.H.U. (1998-2002) with CGPA 8.89 (on a scale of 10) and Department rank 4</i>
<b>Intermediate</b>	<i>Passed from C.B.S.E. Board with 92 % marks (PCM)</i>
<b>Others</b>	<i>All India Rank 1497 in I.I.T. J.E.E. Examination 1998</i>

## SOFTWARE SKILLS SET

<b>Hardware Platforms</b>	Intel processor based networks
<b>Operating Systems</b>	Windows based platforms. Preliminary knowledge of Unix
<b>Languages</b>	C\C++, Java, JavaScript, HTML, DHTML
<b>Testing Tools</b>	<ul style="list-style-type: none"> <li>➤ Rational Test Suite (Robot, Functional tester, Test Manager, Rational Performance tester)</li> <li>➤ <b>WinRunner</b> with the add-ins <i>Java, Stingray, TE, Siebel, Delphi, Web Test, Visual basic, ActiveX, Power Builder.</i></li> <li>➤ <b>LoadRunner</b></li> <li>➤ <b>Test Director.</b></li> </ul>

## Corporate Training Undertaken

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### Tools :

*Mercury : WinRunner, LoadRunner, QuickTest Professional , EggPlant*

*Rational: Rational Robot, Rational Test Manager, Rational Functional Tester, Rational Performance Tester*

**Open Source : OpenSTA, Webstress, Jmeter**

**Companies: Accenture (Mumbai), Fidelity, HCL Technologies, , Inter Globe Technologies, Synapsis, Open Technologies, Perot Systems.**

**BrickRed Technologies(Noida):**

**Tools: QuickTest Professional 9.0 Basic and Advanced**

**Duration: 3 days**

**Audience: 8 people (2-4 years of experience)**

**HCL Technologies (Noida):**

**Tools: Rational Functional Tester, Rational Performance Testers and Rational Test Manager**

**Duration:5 days**

**Audience: 8 people (2-5 years of experience)**

**HCL Technologies (Noida):**

**Tools: QuickTest Professional 9.0 Basic and Advanced**

**Duration: 4 days**

**Audience: 12 people (3-6 years of experience)**

**Max HealthCare(Gurgaon):**

**Tools: QuickTest Professional 9.0 Advanced and Rational Functional Tester**

**Duration: 4 days**

**Audience: 6 people (3-6 years of experience)**

**Fidelity (Gurgaon):**

**Tools: Rational Functional Tester and Rational Performance Tester**

**Duration: 3 days**

**Audience: 4 people ( 4-5 years of Experience)**

**Accenture (Mumbai):**

**Tools: Manual Testing, QuickTest Professional , Rational Robot and TestManager, WinRunner , LoadRunner**

**Duration: 9 days**

**Audience: 16 people (Fresher and 1+ years exp)**

**Synapsis (Noida):**

**Tools: LoadRunner and QuickTest Professional**

**Duration: 5 days**

**Audience: 6 people ( 3-6 years of Experience)**

## **PROJECTS INVOLVED IN:**

I worked applications across diverse domains and using a variety of tools. This include working with COTS like Mercury and IBM Rational suite of products as well as implementing really cost effective solutions using OPEN SOURCE TOOLS and Methodology. Typical work profile being involved with client from day 1 of project helping the client in the proposal process and providing strategic consultancy in the RFP phase to help client win the project.

### **A. Project : Functional Test automation for Attendee Toolkit Application**

**Company: Mascon Global Pvt. Ltd., Gurgaon**

**Client : Pfizer**

**Duration: October 2006 to Dec 2006**

**Tools used: Mercury Quick Test Professional 9.0 and Mercury Quality Centre**

Attendee toolkit is a web based application that will be used by Pfizer's representatives to manage pre and post meeting attendees. This application will also give control over per capita expenses of the attendees.

#### **My Responsibilities:**

- a) Helped in preparation of Automation Test strategy for the application.
- b) Prepared wireframe for Level – 5 automation framework (Action driven framework) that helped client achieve automation penetration up to the level of business analyst.
- c) Helped preparing central library components for the screens having custom controls. (that could not be prepared directly using standard approaches)
- d) Interacted with the client at all stages of projects (including project status update)

### **B. Project: - Automatic Teller Machine Transaction Analyser (ATMTA)**

**Company: Open Technologies, Noida**

**Client : Hewlett Packard**

**Duration: April 2006 to Aug 2006**

**Tools used: LoadRunner, Quick Test Professional**

Description:-ATMATA is a web based application meant to display information of every transaction in real time occurring at ATM machines which are grouped on various classifications like terminal id, node, region etc. It offers features like viewing transaction data by configuring different views, transactions on a particular date and time, transactions meeting a specific criteria, showing alerts if some thresholds are violated and generating reports.

#### **Roles & Responsibilities:**

- a) Moderated Requirement and situational analysis workshops to understand requirements specification thoroughly.
- b) Devising Sniff testing and Build verification testing process\Plans.

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- c) Took part in Tool Identification exercise (to find merits and demerits of commercial and open source tools to suit the particular need of the project)
- d) Identification of ACTCs (Automation candidate test cases)
- e) Test Execution Results logging using QTP.
- f) Was involved in performance testing of application services responsible for data insertion in data base.

**B. Project :Automated testing for B2B Application "Brabeion Compliance Center"**

**Company: BrickRed Software systems, Noida**

**Client : M/s Brabeion Inc. VA, USA.**

**Duration: Mid Sep 2005 to Feb 2006**

**Tools used: Mercury Quick Test Professional (8.2)**

Traditionally, organizations have relied on security policies to communicate high level directives from management to business units, departments and individual employees. The Brabeion Compliance Center (BCC) is a web based database application that can serve as the security information portal for an enterprise. It is designed to organize, communicate and manage an organization's Information Security policies and procedures.

**My Responsibilities:**

- a) I was involved in project right from day1 helping client with the proposal for Automation testing of the Application
- b) Conducting POC to demonstrate the Tool's (QTP) capabilities to work with the application. This combination of cost effective automation strategy and low maintenance self corrective framework approach helped my clients win the project.
- c) Responsible for the complete Test Management. Activities involve Automation Test Plan creation for the application, developing an end to end administrative frame work and managing the test execution activity during various phases of Testing.
- d) Developing Automation WireFrame to automate end to end workflow that begins from automated build download and takes care of Automated install, Installation testing framework, Functional regression test suite, And reporting the result

**C. Project: POC and Training for Inter Globe Technologies, Gurgaon**

**Client : InterGlobe Technologies**

**Duration: April 2005 to Aug 2005**

**Tools Used : Quick Test Professional (8.2)**

The client Inter Globe technology is into developing apps in Travel Domain. The application to automate is a Point of Sales Application used by agents to book the flights and other reservations like hotel and travel. The application integrates with the global reservation database provided by Saber and interacts with the same through web services.

## **Responsibilities**

- a) Making sure that QTP 8.2 works well with custom controls (Far point Grids and other custom controls) in the application.
- b) Generating datadriven framework that tests the application and its interaction with the database at the backend with multiple sets of data input.
- c) Extensive reporting wireframe prepared where results were put
- c) Conducting **Automation Best Practices Training for the team in IGT**

## **D. Oracle Product Lifecycle Management**

Oracle Product Lifecycle management is part of Oracle's E Business suite that functionally address the complete product lifecycle from product inception and development through manufacture, delivery, and aftermarket service. Main component of PLM are Product Data Management, Project management, and CAD View 3D. PLM also integrates with various modules of Oracle ERP

### **Role:**

**As a quality engineer I am involved in various activities like Test Plan creation for various modules in PLM, and test execution during various phases of Product validation like Sanity testing, System Testing, Certification testing and Build testing.**

- Preparation of Test Plan for "Engineering Change Management" and "Advanced Product Catalogue" modules of "Product Lifecycle management". This involves detailed understanding of the entire product Lifecycle and various intricacies of ERP modules.
- Test script execution during various phases of product execution.
- Preparing the Performance testing scenarios using LoadRunner and working towards designing a complete Wireframe for the same. This includes setting up of desired hardware and understanding the business needs.
- Automation of highly complex application like "Graph and Report Viewer" in CAD View 3D using WinRunner. This involves customizing WinRunner functionality to make it compatible with non-supported application like the ones mentioned. It involved creation of dlls and external libraries to act as interface between WinRunner and the application
- Involved in designing of internal Bug Tracking and Issue Resolution system using the Oracle E Biz suite to coordinate the activities between development and QA team.
- Coordinating with Development team in Oracle HQ, US for resolution of various issues related to certification testing.

## E. Project: Automation of Adobe Illustrator CS2

Adobe Illustrator has highly customized controls and hence implementing WinRunner was a major challenge in terms of customization of WinRunner to suit that needs. Implemented a complete wireframe that took care of build download, Installation, Installation testing, Executing RTs (Regression TestCases) and then sending out reports automatically.

### Roles and Responsibilities

- Automation of highly complex modules within Illustrator using WinRunner. This involves customizing WinRunner functionality to make it compatible with non-supported application like the ones mentioned. It involved creation of dlls and external libraries to act as interface between WinRunner and the application

## F. TECH. SUPPORT FOR MERCURY INTERACTIVE U.S.A.

Technical Support Engineer (CSO, Mercury Interactive Inc, USA): **Trained extensively by M/s. Mercury Interactive Inc., USA** on their functional testing tool **WinRunner, Quick Test Professional and Loadrunner** and working on a project for Mercury Interactive Inc., USA. Responsibility includes providing **technical support** to customers of **Mercury Interactive Inc, USA**. Providing active, time-bound technical assistance and support for their product **Loadrunner, WinRunner** and **QuickTest Professional** with the add-ins Java, Stingray, TE, Siebel, Delphi, Web Test, Visual Basic, ActiveX, and Power Builder.

**ROLE:** As a WinRunner, LoadRunner Quick Test Professional Product Specialist, I am actively involved in Providing Technical support to Mercury Interactive, USA for their products.

My responsibility include

- Studying the Service Request, simulating the problem and providing best way of accomplishing task for clients' application
- Direct interaction with the client for resolution of their technical query.
- High level of interaction with Mercury R&D Team for solution of problems.
- Constant simulations on different platforms to find Product Limitation of WinRunner, documenting them and raising Enhancement request.

- Underwent training on internals of WinRunner works including the complete hooking mechanism and memory patching

**PLATFORM:** Win runner 7.5 Quick Test Professional 6.0 and Test Director 7.6

## **G. AUTOMATED TESTING OF B2C APPLICATION (priceline.com) FOR PRICELINE INC.**

This portal allows user to bid for availability of airline reservation for given destination. These bids are checked later and seats are allotted to user in decreasing order of their bids subject to availability. This concept of AirLine Ticket reservation was later extended to Car Rentals and Hotels. Many version of this portal were developed for U.S. HongKong, U.K, Australia.

### **My Responsibilities:**

- Helped in Preparation of the Master Test Plan (MTP), Detailed Automation Test Plan (DTP) and Test Cases.
- Tested standalone java application (internal application developed for PriceLine Inc, developed in Swing) using WinRunner 7.01. It involved reverse engineering the application, creating objects of java AUT in WinRunner script and then invoking suitable methods to accomplish the task.
- Also wrote scripts in WinRunner for testing web pages having complex structure.
- Created dynamic query generation. Oracle queries were created based on the entries in data table and run on database located in US.
- Automated complete modules conforming to test cases defined in corresponding Test Director Project.
- Complete Version Control and test management through Test Director 7.6
- Sorting issues with onsite team.

**Environment:** Test Director 7.6 , WinRunner 7.01, Windows NT, HTML, ASP, VB  
**Database:** Oracle 8.1.7

## **H. Development and Testing of DHCP Server (April 2002- July 2002)**

Did this project as part of summer training in MindTree Consulting B'lore. Designed and developed DHCP server to be deployed in VX works in embedded micro controller environment. It was developed in C on Unix environment. Required extensive Network Programming

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## **My Responsibilities**

- Designing and Implementing DHCP Server to be implemented in VX Works
- I was involved in the complete Project life cycle right from Requirement drafting to the acceptance
- Performed White Box Testing on the code developed to check for the integrity
- Was involved in preparation of Unit Test Cases and Integration Test Cases
- Did Stress Testing of DHCP server using LoadRunner 7.02

Environment: C, Unix, LoadRunner 7.02

## **OTHER DETAILS**

<i><b>Date of Birth:</b></i>	25th August 1979.
<i><b>Marital Status:</b></i>	Married.
<i><b>Nationality:</b></i>	Indian.