

Henry Pham

Principal Software Engineer

Mobile: 714-686-0927

Professional Profile:

Home:

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henryvpham@gmail.com

Page 1 of 3

[10 YEARS AGO RESUME FROM DATE: FEBRUARY 2ND 2023]

Professional Summary:

- Over 14 years of software engineering experience with emphasis on software architecture, Real-time embedded software in VxWorks using C/C++, and applications in Java with best practices for successful development.
- Extensive background in all phases of project life cycle including requirements gathering, functional specification, software design, prototype, estimation, implementation, debugging, testing, and documentation.
- Strong knowledge in concepts of OO Designing/Programming, Real-time Systems, Multi-Threading.
- I am hardworking, responsible, organized, challenged, teamwork, self-motivate with strong software development and problem solving skills.

Technical Expertise:

- **Languages:** C/C++/Java, JSP, Servlets, Flex, HTML, XML, Pascal, and Assembly.
- **Software & Tools:** Eclipse, Visual Age, Borland JBuilder, Visual Café, FinalBuilder, Tornado, Source Insight, Visual SourceSafe, ClearCase, ClearQuest and Subversion.
- **Hardware & Tools:** M68HC11 Microcontroller, Motorola PowerPC 860, HP Logic Analyzer.
- **Operating Systems:** VxWorks, Windows (NT, 2000, XP, Win7), UNIX, Linux, Ubuntu, Slax, Solaris.
- **Databases & Libraries:** JDBC, PointBase, SQL, MySQL, VxWorks, Swing/AWT J2SE/J2EE, Motif.
- **Major Implemented Applications:** Time profile, Scheduled Backup, Traveler, Central Patch Management and Secure Logon for R3000. Network Management Application, Network Planer Application, EPRLS Radio System Simulator, Over-the-Air Flash ROM Programmer, Keypad Display Controller (KDC) Application, BIT test application, and AMD/Intel Flash ROM Programmer for EPLRS.

Career Experience:

Jun 10 – Present **Western Digital - CA** **Title: Principal Software Engineer**

Responsibility: design, develop and maintain Java Test Software for Mobile/Desktop/SSD/Hybrid drives.

- Designed and implement Error Reporting mechanism successfully for Reliability Test Software.
- Designed and developed Framework for more than hundred Java applications for Reliability Test Software.
- Successfully developed core Java for multiple-drive and multiple-type drives detection and a very useful primary sequential/random Read/Write application using design pattern and OOP.
- Designed and implemented Performance application to test different drives' IO performance and developed many other java applications such as Lizard, Power On/Off Test, Seek Test, Load/Unload Test.
- Implemented file system logging for Reliability Test Software using the powerful apache log4j.
- Developed Automation and Schedule Build Process Scripts for Reliability Test Software packaging for more than thirty Java test packages using FinalBuilder to build from the FinalBuilder Web Server.

Jan 10 – Jun 10 **Pace Americas - CA** **Title: Senior Software Engineer**

Responsibility: design, develop and maintain Java Application/Applets applications for Set-Top-Box (STB).

- Designed and developed Built-In-Manual-Tester (BIMT) application using Java language to test Built-In-Self-Test (BIST) for STB which is configurable based on the XML GUI configurations.
- Designed and implemented Inventory System for STB using J2EE technology and MySQL database.
- Develop and maintain BIST for STB using C/C++ programming language.

Jan 06 – Oct 09 **M86 Security - CA** **Title: Sr. Software Engineer**

Responsibility: design, develop and maintain Java GUI, and backend applications in C for R3000 Filter.

- Customized Java Swing components to improve the R3000 GUI with a professional look and feel.
- Designed and implemented Time Profile to make sure no allocation timeslot overlapping each other.
- Designed and developed Scheduled Backup with remote FTP server for R3000 Configuration and Library Data.
- Designed and implemented Secure Logon to allow lockout by User Accounts and/or IP Addresses with login failures time-span for R3000 Logon Management under Linux environment using iptables command.
- Designed and developed R3000 Traveler to allow downloading of updating Library in almost real-time.

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Page 2 of 3

- Designed and implemented R3000 Central Patch Management to allow downloading and installing patches.
- Implemented JTreeTable GUI to control and display Filter Categories for User Profiles.
- Implemented and maintained front-end Java GUI and backend applications in Linux environment for R3000.
- Developed X-Strike Blocking, Real-time Probes Report, lock, and block pages to support R3000 filtering.
- Developed Java application for R3000 to support Internationalization (i18n) and Localization (L10n).
- Successfully implemented Sync Utility to sync configuration data from a master R3000 to a target R3000 using C programming language.

May 98 – May 05

Raytheon Company - CA

Title: Sr. Software Engineer I

Responsible for designing, developing, maintaining and documenting Java Network Management Application, Java Network Planner and C/C++ Real-Time Embedded Software for the EPLRS Radio Systems

Designed and implemented Assembly/C/C++ Firmware Applications including:

- Worked very hard to accomplish an interesting project for designing and developing over-the-air Flash ROM Programmer Application to allow the EPLRS Radios programmable over-the-air via EPLRS wireless network using C/C++ programming language under VxWorks RTOS, TCP/IP, and FTP protocols, AMD/Intel Flash Erasing and Programming algorithms.
- Successfully designed and implemented Keypad Display Controller (KDC) Firmware Application under VxWorks RTOS to allow the user to configure the EPLRS using VT100 protocol.
- Developed a useful Loopback Test Application to test EPLRS hardware devices (CPU, Interrupts, Sensors, DRAM, Flash ROM, Serial EEPROM, Ethernet, RS232, and many other devices) periodically to monitor hardware devices performance under different circumstances such as temperature, pressure and data rate.
- Implemented Built-In Test (BIT) Firmware Application to test EPLRS hardware devices during boot-up for many different EPLRS Hardware types using C programming language and supported the hardware team to troubleshoot hardware devices.
- Developed a useful AMD/Intel Flash Programmer Embedded Application for EPLRS with supporting of multi-hardware platforms by implemented RS232 Device Driver and AMD/Intel Flash Erasing and Programming algorithms to support the applications using C programming language run under Radio boot-loader and VxWorks operating system.
- Successfully implemented RS232 Device Driver in VxWorks using C programming language.

Designed and implemented Java Applications including:

- Developed IP Assignment Application: A Java Application is used for EPLRS Network Planner to assign IP Address for each Radio automatically using drag & drop from data JTable without conflicting of IP Addresses.
- Developed Category Template Application: A Java Application is used for EPLRS Network Planner to build complicated Radios, Needlines, and IP Address trees based on user defined-template in XML format.
- Developed and supported EPLRS Network Simulator Application: A Java Application is used to simulate EPLRS Network without Virtual EPLRS Network Systems and used for training purpose. The application is built with a complex GUI, 2D Graphics, SNMP protocol, TCP/IP protocol, XML.
- Developed Radios Assignment Application: A Java Application for EPLRS Network Planner to add/modify/delete Configuration Parameters for each Radio in a complex GUI with supporting of drag & drop.
- Developed Needlines Assignment Application. A Java Application for EPLRS Network Planner to add/modify/delete a Needline or Needline's Parameters in a complex GUI, JTree with supporting of drag & drop and JTable with complicated data matrix table.
- Developed Java Chat and FTP Applications running in EPLRS Wireless Network: Chat application was written in Java using TCP/IP protocol. FTP application was built based on FTP protocol.
- Developed Java Trap Monitor, Trap Playback Utilities: Real-time Trap Monitor runs with the EPLRS Network Management Application to monitor the Network. Trap Playback Utility reads and playbacks the stored trap file from the Trap Monitor Utility for troubleshooting the activity of the network at anytime.
- Designed and developed Real-time Data TableModel: A TableModel class was built based on AbstractTableModel by using a HashTable that contains unique key and row data for each row entry. The purpose of this model is to update data in Real-time faster. This model is used in many applications.

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Page 3 of 3

- Designed and developed Multi-View JTrees of a common TreeModel: A TreeModel class was built based on TreeModel interface with a Vector contains registered TreeModels. Each instance of TreeModels has its own type of visible nodes, and they are using the same tree structure. This model is used in many applications.
- Implemented Java GUI Prototypes for EPLRS Network Planner and many other useful Java utility applications.

Aug 97 – May 98

Caltrans - Los Angeles, CA

Title: Engineer Assistant

Member of Electrical Engineering Department with responsibility for updating and maintaining Software Application and Remote Camera System for Freeway Traffic Controller

- Updated and maintained CMS Software in Visual C Application.
- Maintained remote cameras for Freeway Traffic Control System.

Certifications/Education:

California State Polytechnic University, Pomona, CA.

B.S. in Electrical Engineering, Cum Laude, June 1998

Employer and Friends Reference:

Available upon request.