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| **Edward B. Horch**  | Bridgewater, NJ, USA+1 908 575 8795 home+1 732 895 6699 celled@horch.org |

SUMMARY OF QUALIFICATIONS

Software Engineer with over 30 years of experience in all phases of Unix/Linux-based software development within global corporate settings. Expertise in software configuration management and integration. Skilled in managing and delivering small and challenging projects within large systems, as well as interacting and coordinating with internal and customer organizations. Resilient and adaptable to emerging technologies and evolving project needs. Proactive, self-starter with excellent spoken and written communications skills. Accomplished C/C++ and shell programmer at system or application level. US citizen. Prior US Secret security clearance.

# PROFESSIONAL EXPERIENCE

**Alcatel-Lucent/Nokia, Murray Hill, NJ**  **2010-Present
*Technical Consultant, Wireless Networks***

* Instrumented builds of a large embedded OS and application product targeted to several hardware platforms, to find bottlenecks. Produced timing graphs as additional artifacts.
* Used that data to optimize the build procedure and scripts for fastest turnaround time.
* Improved parallelization process to stop all concurrent build activities when any failure occurred.
* Above work achieved a fourfold speedup of build time, avoiding purchase of additional hardware.
* Ported several projects’ builds to Hudson/Jenkins, allowing key developers to initiate official product builds, in turn reducing the need for dedicated build/release engineer headcount.
* Convinced project management to stop counting whitespace changes in code churn counts, resulting in more realistic metrics, and allowing better code cleanup.
* Performed product builds for several projects.
* Documented many processes and procedures so they could be performed with minimal training.
* Consulted as subject matter expert on sizing, tuning, and location of ClearCase/Multisite servers.

**SAIC,** Red Bank, NJ  **2004-2010**

## Senior Software Engineer, Future Combat Systems

* Development lab architect and administrator for large distributed development effort.
* Deployed and administered ClearCase MultiSite 5.0 through 7.0 at three sites.
* Specified and built out 100-machine development/testing laboratory for same organization including client workstations and embedded hardware test beds.
* Achieved four-nines uptime for core servers and storage arrays, with no data loss, ever.
* Optimized MultiSite code delivery process saving thousands of staff-hours per year project-wide.
* Directly supported hundreds of lab users locally and at many remote sites.
* Subject matter expert for ClearCase, providing consultation to other projects, as well as to other sites within primary project.
* Received multiple written commendations from prime contractor.

**Leapstone Systems,** Somerset, NJ  **2002-2003**

## Software Configuration Management Engineer

* Software integrator for 80-engineer startup across sites in USA, Canada, and India.
* Deployed ClearCase 5.0 with UCM in mixed Solaris/AIX/Windows XP, C/C++/Java environment.
* Negotiated SCM policies across all development teams.
* Defined and documented UCM projects, metadata conventions and build procedures.
* Developed ClearCase triggers to enforce fundamental policies.
* Developed and maintained a single set of product build scripts used by all projects.
* Constructed web-based facility that enabled lead staff to initiate official product builds, enforced code check-in policies, prepared formal handoffs to QA, and reported build and release status.
* Performed all official product builds prior to web services rollout.

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**Hewlett-Packard Co.,** Florham Park, NJ **1996-2001**

## Software Engineer, HP-UX

* Project manager and lead developer for Rock Ridge extension to HP-UX CD-ROM file system.
* Wrote requirements, project plan, design documents, high-level test plan, and end user documentation. Supervised test engineer.
* Ensured customer needs were met by coordinating work with large external customers and internal HP organizations.
* Developed all kernel and userland code. Enhanced affected internal and user documentation.
* Designed and implemented high-level makefiles to tie disparate HP-UX network, kernel and commands source bases into a single buildable source tree within ClearCase.
* Standardized all makefiles for parallel build support and maximized build avoidance and wink-in.
* Enhanced build environment for multiple target hardware platforms as well as change control of the compilation system itself.
* Completed and delivered access control list capabilities for HP-UX’s journaling file system.
* Wrote delivery plan including impact analysis of wide spread code changes.
* Developed acl(2) system call API, created or modified 18 user commands.
* Designed, built and administered 15-machine test ring for HP-UX core file system team.
* Deployed several prototype V-class and Superdome machines with very large disk arrays for specialized file system performance and scalability testing.

**Unix System Labs/Novell, Inc.,** Summit, NJ **1993-1996
*Software Engineer, Unix System V Release 4***

* Participated in evaluation of commercial tools to replace the existing source control and bug tracking tools used for the UnixWare and NetWare products.
* Designed and implemented tool set for importation of existing source base into ClearCase.
* Designed comprehensive set of trigger scripts to integrate ClearCase with existing bug tracking system, enforcing policies which varied from project to project.
* Provided SCM and build support for SVR4/UnixWare’s C/C++ compilation toolchain.
* Automated and standardized processes, reducing build turnaround time by a factor of eight.

**AT&T/Bellcore/Bell Labs, various NJ locations 1984-1993**
***Technical Consultant, various projects***

* Technical lead of a team of five providing integration support for twelve medium-sized development projects.
* Developed tools to standardize and automate integration activities.
* Participated in development of a telephone management system for Centrex users
* Designed interpreter in C++ that enhanced maintainability by replacing large amounts of repetitious code with short scripts.
* Participated in development of call processing firmware for 250-line PBX.
* Member of testing team for a large data networking product.
* Wrote and executed detailed integration and regression test plans.

### EDUCATION

**Bachelor of Science**, Computer Science, Rutgers University, New Brunswick, NJ.