

Anthony DeWitt

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EXPERIENCE

Principal Software Engineer, Penthera Technologies, Pittsburgh, PA *Jun 2005-now*

- Lead development of Athena Broadcast Control Center, which is a scalable server product that enables broadcasters to deploy mobile video, audio, and data broadcast services in a DVB-H network.
- Defined Electronic Service Guide standards for the U.S. DVB-H Network Air Interface Specification.
- Provided recommendations to management on technical, purchasing, and hiring decisions.

Senior Software Engineer, Haley Systems, Sewickley, PA *Feb-May 2005*

- Implemented LDAP support for user and group management in the HaleyAuthority product.
- Implemented source control integration between HaleyAuthority and various source control products (e.g., SourceSafe, Perforce, etc.) using the Microsoft Source Code Control Interface (MSSCCI).
- Prototyped and designed Unicode support for the HaleyRules-SP business rule engine.

Architecture Manager, Nokia Inc., Pittsburgh, PA *2004-2005*

Lead Software Architect, Nokia Inc., Pittsburgh, PA *2003-2004*

- Eizel Technologies was acquired by Nokia in May 2003.
- Initially led, and then later managed the software architecture team in the Nokia Mobile Email business group. This involved personnel, budgetary, and technical management of a team of five senior software architects located in Pittsburgh, Boston, and Dallas, while supporting three major product releases with technical oversight and guidance.
- Responsible for overall software architecture and technical direction of Mobile Email. Built cooperative relationships with technology arms of other Nokia business groups in Mountain View, Dallas, Boston, and Helsinki, communicating and coordinating our technology roadmap with them.
- Provided technical guidance to senior Nokia management on strategy, potential acquisitions, risk mitigation plans, partnerships, schedules, vendor relationships, and new technology.
- Defined and implemented the role of the architecture team in the Mobile Email software development process, cooperatively with engineering, product management, and program management.
- Built and directed multiple teams of offshore developers in India, each focused on a different project. Responsible for identifying appropriate engineering staff, training engineers in relevant technologies, reviewing project plans and designs, tracking project status, and general technical oversight.
- Coordinated and lead Nokia-wide project to advance the current state of industry standards for mobile email technology, including activities in both IETF and the Open Mobile Alliance.
- Member of the Nokia Enterprise Solutions Technology Strategy Board.

Lead Software Engineer, Eizel Technologies, Pittsburgh, PA *2001-2003*

- Lead development projects to make Eizel's flagship product, Amplifi, more stable and commercially viable. These projects included work in the areas of internationalization, automation, and scalability, as well as a project to re-architect the entire product from scratch.
- The internationalization project involved leading a team in India to fully internationalize and localize the Amplifi product. Worked with a third-party localization vendor to translate the product into 14 European and Asian languages. Investigated and implemented many of the more complex parts of the internationalization work.
- The scalability project involved investigating both in-house and third-party server farm implementations and making implementation recommendations to management. Analyzed and improved product memory management, reducing memory consumption by more than 50%. Tracked and fixed numerous memory leaks and memory corruption bugs in Java/JNI/C code.

- The automation project involved designing and developing automated testing tools, as well as statistical and introspective frameworks for Amplifi. The testing tools became an integral part of our testing plans and strategy, increasing our testing capacity many times over.

Development Lead, CoManage Corporation, Wexford, PA *2000-2001*

- Technical lead for the Network Element Model (NEM) development team, consisting of eight software engineers, working on CoManage's ISM Network Management product.
- Responsible for all aspects of NEM development including the NEM subsystem architecture, development environment, work assignments, and project status. Oversaw and participated in requirement, design, and code reviews. Coordinated interactions with other development teams.
- Cooperated closely with engineering and product management to define and implement improvements to NEM development processes. Increased detail and accuracy of requirements specifications, produced software design templates and implementation guides, made greater use of unit testing, and implemented a QA acceptance testing procedures.
- Worked with vendors and partners to gain a deeper understanding of their networking equipment and the network management marketplace overall.
- An active member of CoManage technical oversight committee.

Development Engineer, CoManage Corporation, Wexford, PA *1999-2000*

- Implemented NEM support in the ISM product for the Marconi PowerHub and Lucent CBX, GX, and B-STDX switches. Added support for multiple device communication protocols, along with other improvements to ISM to make it faster and easier to implement device support in the product.
- Developed and executed end-to-end testing procedures for ISM.
- Served as technical mentor for five incoming development engineers.

Senior Software Engineer, Lycos Inc., Pittsburgh, PA *Jan-Sept 1999*

- Member of a twelve person software development team working on the Lycos web search engine.
- Designed and implemented a system for managing distributed catalog build and query clusters.
- Ported the Lycos web crawlers from Digital Unix to Linux, while also enhancing their overall reliability, performance, and feature set.
- Troubleshoot and fixed problems in the web catalog build process.

Research Assistant, Intel Research Labs, Santa Clara, CA *May-Aug 1998*

Hardware Engineer, Advanced Micro Devices, Milpitas, CA *May-Aug 1997*

TECHNICAL SKILLS

Operating Systems	Linux, Solaris, Digital Unix, Windows NT/2000/XP
Programming	Java, C, C++, Assembler, SQL, HTML, WML, XML, SNMP
Tools	Eclipse, Visual C++, GNU tools, JUnit, CVS, Perforce, Continuous, Bugzilla
Project	MS Project, Together, Rational Rose, Offshore development, Caliber
Software	PostgreSQL, SQL Server, Hibernate, Apache, Tomcat, HP OpenView
Networking	TCP/IP, UDP, DNS, Ethernet, DVB-H, ATM, xDSL, GSM
Hardware	Digital circuit design, microprocessor architecture, compiler optimizations

EDUCATION

M.S. in Computer Science, Carnegie Mellon, Pittsburgh, PA *1996-1998*

A.B. Honors in Computer Science, Harvard College, Cambridge, MA *1992-1996*