

Jan Rovins

Embedded Systems Software Engineer - S-Link

Woodstown, NJ - Email me on Indeed: [indeed.com/r/Jan-Rovins/3f89f76e3dfcbe38](https://www.indeed.com/r/Jan-Rovins/3f89f76e3dfcbe38)

Work System Architecture, Design or software development, Embedded Linux, Distributed Multi-Tier Unix Based systems, or Highly Parallel Systems

WORK EXPERIENCE

Embedded Systems Software Engineer

S-Link - Mount Laurel, NJ - April 2000 to Present

Mt. Laurel NJ 4/2000 - Present

Project has gone through three Companies, because of a series of acquisitions.
Embedded Systems Software Engineer.

An embedded telecom signaling Gateway using SS7 & SIGTRAN protocols.

Sends SS7 Signaling over an IP network using the IETF SIGTRAN protocols.

Currently working on a distributed cluster version of this product.

- Architected the overall Embedded Linux runtime environment, which was a Custom Linux distribution (BSP) from scratch. Also implemented CVS version control & build scripts for the Linux "System" portion of the product.
- Ported product to PPC, Intel x86, Xscale, & Mips Oction hardware architectures.
- Developed Parts of a SCTP (RFC 2960) network stack (user space & raw sockets) Participated in 2 international SCTP interop "Bake-Offs" hosted by the IETF
- Adapted PPC Linux kernel to support non-standard PCI bridge hardware.(PLX 9060es & Powerspan II)
- Ported & enhanced a Cross buss PCI network layer that linked multiple systems.
- Enhanced the Linux MTD flash driver to support a non-standard 64 bit flash geometry.
- Set up initial lab infrastructure for IP/WAN network testing for simulated packet loss & delay, and also did an Ipv6 WAN simulation.

Middleware Architect AVP, Distributed Systems - Common Services

MBNA - Wilmington, DE - April 1998 to April 2000

Credit Card Processing

Served as tech lead for groups of 1 - 3.

Design Reviews & Code Reviews of work going on in the department.

Maintained Core Communication API Libraries (Tuxedo Isolation Layer)

Developed a workable Release Management infrastructure for deployment of generic middleware services used by multiple applications throughout the bank.

Coordinated the production releases of all Common Services deliverables.

Supported infrastructure upgrades & conversions of Bank wide applications.

Participated in technology evaluations, and Determined hardware & software specifications for applications going into production.

Designed & prototyped middleware isolation layer for Plexus Workflow.

Senior Systems Engineer

AW Computer Systems - Mount Laurel, NJ - May 1997 to March 1998

Checker Productivity Analyzer; A supermarket security system that can detect

employee and customer theft, by using computer vision technology, and real-time point of sale data. Implemented as a distributed system involving multiple Linux nodes and a single Windows NT server as the controller node. My work involved the server subsystems on the NT controller, as well as the IPC communication layers, was also responsible for maintenance and re-design of the C++ system base classes, Event Manager sub system (NT) and also configuration management (builds, version control & install).

Senior Software Engineer

First Data Resources - Marlton, NJ - June 1995 to May 1997

Credit Card Services, Client Server, Three Tiered Architecture

Was a member of the Systems Architecture Group. Also did Profiling & System performance tuning on a Windows NT based System, and Server Programming on the "Data Abstraction Layer".

Ported UNIX server System layers To Windows NT. (Tuxedo TPM based)

Also did System Integration of Wang Workflow, UNIX Server Development (application Layer Tuxedo Services).

Systems Development

Dow Jones & Co - Township of South Brunswick, NJ - November 1994 to June 1995

Senior Software Engineer:

Distributed Processing, Text Processing, UNIX (SUN & DEC)

Did extensive performance benchmark evaluations on hardware & software components for a new "News Clipping" System. Also participated in the system design & did demo prototype of that system mostly in PERL.

Senior Member Technical Staff

AUTOMATIC DATA PROCESSING, Strategic Architecture Division - Mount Laurel, NJ - January 1993 to November 1994

Mount Laurel NJ 1/93 - 11/94

Senior Member Technical Staff:

Distributed Processing, UNIX (SUN) environment.

Working on design and implementation of the new Central site news wire distribution service. a distributed system using TCP/IP networking, SNMP network management, and multiple UNIX servers. Hardware includes: Sun SPARC 10, HP 9000, IBM RS6000. Responsible for Scaling Up from a Pilot demo, to a production news distribution server system. Full Production capacity was 80,000 Users. This involved scaling the pilot from a single machine to a multiple machine architecture, and implementing failover and redundancy capabilities. Also it involved system

performance tuning and code optimization to meet the full production capacity.

As well as Integration of new subsystems into an older existing proprietary Distribution network. Duties also included System & Network configuration of Lab & QA equipment, and Software Configuration management for the project.

Senior Software Engineer

LEEDS & NORTHRUP - North Wales, PA - 1990 to 1992

MMI Development Group (Man Machine Interface)

MAX1000; A distributed industrial process control system with realtime software developed in C and C++,
responsibilities included: Specification requirements,
Design, sed subsystems in a distributed processing environment.
Developed for UNIX, and CEXEC (a real time bare bones executive)
Hardware platform was Intel 386 and 486.

PROJECTS INCLUDED:

- A real time database retrieval engine (name & list server).
- A virtual terminal server for distributed systems.
- Multi-network time synchronization services for distributed system.
- Lower level data retrieval support for a trend archival system.

Adjunct Professor

Atlantic County Community College - September 1989 to November 1989

Computers and information Sciences teaching C programming

EDUCATION

Masters in Computer Science

Villanova University

1990 to 1993

Atlantic County Community College

1987 to 1989

B.S.

Syracuse University:, College of Visual & performing Arts

1977

SKILLS

OOA/OOD Distributed System Architecture, Server Transaction Protocol Design, Multi Core Parallel Processing System Scaling & Performance Tuning (NT & UNIX), Linux Kernel internals, Linux Device Drivers, Embedded Linux, SCTP, IP, IPv6, Tuxedo (TPM), CVS, CMVC, SVN, BZR, Git VSS, Text Processing (inverse Index): LMDS & VERITY, SQL server 6.0, Informix 7.x, Sybase(dblib), Oracle(oci), T2-SDE, GCC Cross compiling.

LINKS

<http://www.linkedin.com/pub/jan-rovins/2/a03/ab3>

ADDITIONAL INFORMATION

Operating Systems: Linux, SUN Solaris 1, Solaris 2, HPUX 9,10, 11 AIX, Digital Unix, Windows NT/2000, and various Real-Time Executives