

# Steven J. Surdock, P.E.

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Rockford, MI 49341

Phone: (616) 299-4981

**OBJECTIVE** Challenging responsibilities to apply education, experience and talents in the area of complex information systems design, analysis, integration and operations.

**INDUSTRY CERTIFICATIONS** Licensed Professional Engineer, various past vendor certifications from Cisco, Check Point and Microsoft

**EDUCATION** **The Johns Hopkins University.** Baltimore, MD.

1991 *Degree:* Master of Science.

*Major:* Electrical Engineering.

1987 **Lawrence Technological University.** Southfield, MI.

*Degree:* Bachelor of Science.

*Major:* Electrical Engineering.

## EMPLOYMENT HISTORY

Present To  
May 2002 **Engineered Networks, LLC.** Rockford, MI.  
President

Provided independent, unbiased, engineering solutions for clients IT needs. Worked with customers from a broad spectrum of industries (service providers, finance, health care, manufacturing, distribution and logistics, and education) to provide networked system design, implementation and support services.

May 2002 To  
September 1999 **Kalana Group, LLC.** Grand Rapids, MI.  
Senior Network Engineer

Lead system and network design and implementation engineer for a wide variety of projects and clients. Performed networked system review with respect to full range of requirements. Consulted on security improvements for Internet-based systems. Performed Windows 2000, Windows NT, Unix and Linux system administration. Designed and implemented redundant Internet connections using BGP. Designed and implemented medium and enterprise firewall solutions with Check Point FW-1 and other firewalls. Provided cost-effective network monitoring solutions.

September 1999 To  
March 1997 **URS Greiner.** Grand Rapids, MI.  
Technology Consultant

Managed multi-million dollar voice, video, and data systems implementations for K-12 school districts state wide. Lead system and network design engineer for multi-building Novell and NT implementations on Fast Ethernet and ATM networks.

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- March 1997      **SSDS, Inc.** Vienna, VA.  
To                Senior Network Engineer  
April 1992      Responsible for data communication and information system design, integration, implementation, and management. Involved in software development and implementation of enterprise management systems. Provided support to customers in many areas of system integration and computer communications. Prepared proposals as well as design documents as final deliverable to customers.
- April 1992      **Naval Surface Warfare Center.** Silver Spring, MD  
To                Network Engineer  
August 1988     Member of a five man engineering team responsible for addressing data communication requirements for scientists, engineers and managers in a campus environment at a principal Department of the Navy research and development laboratory.

## EXPERIENCE

### *Design*

Developed specifications used as bidding and contract documents. Designed redundant core infrastructure for WISP. Designed networked Novell and Windows systems involving several hundred node networks (PC and Mac) in campus environments. Designed switched LANs with routed fiber and T-1 backbones using ATM and Ethernet technologies. Produced network and office automation design for multiple major medical facilities. Designed network infrastructure used for medical imaging program, fiber/copper cable plants for office and medical facilities. Member of two-man team tasked with designing an architecture for a remote elevator management software system. Designed network and system management solutions using commercial off-the-shelf software platforms. Member of three-man team architecting solution for digital satellite video provider's authorization system.

### *Network/system Management*

Implemented core network management services for multiple service providers. Specified and managed the implementation of manageable infrastructures in existing and new structures. Implemented various network and system management tools at multiple client sites. Installed and configured Cabletron's Spectrum at medical facility to manage over 400 nodes and at government facility to manage over 800 nodes. Installed and configured SunNet Manager at various locations including custom integration using 'C' APIs. Designed system and network management architecture using HP Openview and other third party applications. Customized and created enterprise network management solution for large financial customer using X.500 and SunNet Manager. Developed SNMP MIB for custom agent.

### *System/Network Troubleshooting*

Provided expertise in system and network trouble-shooting in various client environments. Used, installed, and specified a variety of tools including Network General Sniffer and distributed Sniffer, Novell's Lanalyzer, and various SNMP platforms (3Com's Transcend, SunNet Manager, HP

Openview, Cabletron's Spectrum, Novell's Lanalyzer).

*Software Development* Developed Unix based scripts in php, sh, csh, awk, perl, and sed to perform various system administrative and analytic functions. Developed custom SNMP proxy agents using EventIx. Developed 'C' applications for use as tools and as part of system management implementation. Debugged third party TCL scripts.

*Security* Performed network security risk assessments for multiple clients. Implemented and maintained dual redundant OpenBSD and Check Point firewall solutions. Maintained network intrusion detection system with MySQL-based backend. Developed and applied secure IOS template for customer Internet routers. Specified Novell's Border Manager and Microsoft's Proxy Server to establish securable Internet access. Installed Sun Microsystem's firewall product. Installed secure remote dial-in/dial-out using SecureID. Installed and maintained password protected dial-in/dial-out service for Navy Laboratory. Established secure Internet connectivity for Navy Laboratory and small commercial company.

*Project Management* Managed implementation of Microsoft Active Directory migrations. Managed multiple (cable, voice, video, and data) contractors to implement multi-million dollar projects in campus environments. Created, prioritized, reviewed and monitored technology infrastructure budgets and tasks for clients involved in constructing and remodeling buildings. Produced bidding documents from a collection of specifications from internal and subcontracted resources. Managed development, implementation and operation of internal web services for dissemination of corporate information (Intranet). Defined and Managed Video Teleconferencing prototype for corporate use. Project lead for migration of mainframe flat-file database to distributed database and 4GL programming languages. Project lead on several LAN implementation efforts. Technical lead for implementation of enterprise system management application. Managed contract labor for office cable plant installation.

*Requirement Analysis* Assisted clients in defining requirements for systems used in K-12 classroom and office environments. Gathered and analyzed requirements for two major government medical facilities for office automation information system designs. Analyzed and refined requirements for remote management software for world-wide system of distributed data agents. Gathered and analyzed requirements for a large city school system, working directly with MIS director.

*Modelling/ Simulation* Modeled campus broadband network under Opnet which required building custom object models. Modeled switched ethernet network for transaction processing system under Comnet III to determine possible network related problems. Modeled internal corporate Frame Relay network to determine cost-benefit of increase bandwidth to improve user response.

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*Proposal Development* Worked as technical team member for winning system and network integration proposals. Analyzed RFP's for requirement extraction. Developed statements of work for large and small designs and implementations for government contract.

*Implementation* Installed Open Source and Microsoft –based network systems for firewalls, logging & auditing, web services, network monitoring, network intrusion detection, RADIUS servers, DNS Servers and SMTP servers. Managed contractors implementing systems designed by self and others. Provided expertise in area of data network design and tuning to provide optimized network and system configurations. Lead implementor for several hundred node, IP based, office automation system in medical environment using Cabletron MMACs with collapsed backbone around a redundant pair of Cisco routers. Lead implementor for highly segmented medical imaging network running Netware. Lead technical manager and software developer, under Unix, for enterprise network management application.

*Internet* Managed operation and administration of external web presence for SSDS. Developed connectivity plan for large city school system that utilized Netware, exclusively. Configured DNS, Firewall, and sendmail for secure Internet access for commercial corporation. Determined routing solution for Navy Laboratory with dual Internet (MILNET and SURANet) connections.

*Technical Writing* Wrote proposals in individual and team environments. Wrote design and implementation documents as deliverables to customers and other engineers. Wrote user and administration guides, policies, and procedures. Wrote HTML documents supported on an intranet.

*Protocols* (in order of descending experience) TCP/IP (and associated protocols such as: SNMP, POP, MIME, SMTP, HTTP, HTML, DNS, FTP, TFTP, UDP, NFS), BGP, OSPF, EIGRP, RIP, IGRP, Frame Relay, SPX/IPX, RS232, NetBios, NetBUEI, X.500, V.32bis, V.34, X.25, RS442, DSx.

*Software* SunOS, Solaris, Ultrix, OpenBSD, Linux, HP-UX, Netware, Windows 200X, NT, XP, 9x, MS-DOS, Lanalyzer, NG Sniffer, 3Com's Transcend, SunNet Manager, Spectrum, ciscoWorks, Cacti, MS-Word, Excel, Powerpoint, MS-Project.

*Hardware* Sun Microsystems, Intel, Macintosh, Cisco, 3Com, D-link, HP, Xylogics, Cabletron, Lannet, Telebit, UDS, Gandalf.

**PERSONAL** Member of the I.E.E.E. Enjoy sailing, gardening, hiking and hockey.