

DAVID J. FREDERICK

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OBEJECTIVE

To obtain a challenging position which will allow me to prove my abilities and utilize my extensive knowledge and experience; a position that provides the potential for growth and knowledge.

PROFESSIONAL EXPERIENCE

Network Engineer, Consultant, Project/Program Manager

Apr 2001 – May 2018

American Transmission Company LLC, Waukesha, WI.

- ◆ Managed the Communication Reliability Program (CRP) - 84 projects over a 3-year span.
 - ◆ Planned and installed over 2000 miles of fiber optic infrastructure
 - ◆ Planned and installed over 120 WAN/LAN devices to support mission critical communications
 - ◆ Lifecycle over 200 lease circuits with a private managed network
 - ◆ Planned a lifecycle project for over 1000 WAN/LAN devices
- ◆ Designed, Install and maintain Local and Wide Area Network using Cisco and SEL equipment.
- ◆ Installed and maintain Cisco WAN/LAN/DWDM and SEL ICON SONET and networks.
- ◆ Managed vendors, Project Planning/Design, and project/support work assignments.
- ◆ Provided network and systems problem resolution.
- ◆ Installed and maintained Window Based PC, Servers, and Firewall appliances.

Technical Skills

Networking

- ◆ Strong working knowledge of Cisco WAN/LAN equipment
- ◆ Strong working knowledge of CSU/DSU, DS0, F-T1, TI, VPN, Modem, Cellular, and RS-232
- ◆ Strong working knowledge of Ethernet, DWDM, SONET, PPP, and MPLS
- ◆ Strong working knowledge of TCP/IP, OSPF, ERIGP, IGP, 802.1, and 802.p/Q
- ◆ Strong working knowledge of copper and fiber cabling infrastructures
- ◆ Good working knowledge of wireless networks

Network Operating Systems

- ◆ Good working knowledge of Windows Based Server
- ◆ Good working knowledge of UNIX Based Servers

Network Design and Implementation

- ◆ Design and configuration of network edge devices such as routers and communication services
- ◆ Design and configuration of backbone devices such as routers and layer-2/layer-3 switches
- ◆ Design and implementation for Internet and Intranet services (WEB, DNS, mail, RAS, and VPN)
- ◆ Design and implementation of Security systems (packet filtering, NAT, virus scanning, content filtering, Firewall)

Network Management

- ◆ Orion and Prime (Ciscoworks) Network Node Manager implementation
- ◆ SNMP and RMON implementation (servers, workstations, probes, and LAN/WAN equipment)
- ◆ Data collection, management, and reporting using Oracle and SQL Server
- ◆ Extensive Perl, SQL and UNIX shell scripts for report (HTML), paging, and event management
- ◆ Extensive Perl scripts for custom WEB base Network Management System using SNMP v2/3

Programming

- ◆ Developed Management Application running under a legacy Informix database
- ◆ Visual Basic Application Development (Using MS Back Office Solution)
- ◆ Developed administration and data tools/utilities (Perl, PowerShell, C and VB 6.0)
- ◆ WEB Development for Intranet uses (Perl, PHP, JavaScript and VB Script)

Telecommunications

- ◆ Design and implementation of layer-2 and layer-3 data phone systems
- ◆ Good working knowledge of DSU/DSU with drop and insert and channel banks
- ◆ Good working knowledge of voice cabling infrastructures

ADDITIONAL RELEVANT EXPERIENCE

SynerComm Inc., New Berlin, WI.
Systems Engineer

Aug 2000 – Jan 2001

Communications, Cabling, and Networking, Inc., Pewaukee, WI.
Senior Network Analyst

Apr 1992 – Aug 2000

EDUCATION**Pass Professional Certifications**

Cisco's CCNA and CCNP
MCSE, MCSE+I, and MSDBA
Master CNE Client/Network Solutions: IntraNetWare and Windows NT Integration
Master CNE - Messaging
Nortel Networks Router and Nortel Certified Support/Design Specialist
Checkpoint and Websense Product Certification

Training Courses

HP OpenView Network Node Manager and HP UX Administration
Microsoft Visual Basic 6.0
Mastering Web Application Development (Microsoft Visual InterDev 6.0)
SEL, Nortel, Cisco, 3COM and Cisco Phone Systems

College Degrees

University of Wisconsin-Stout, Menomonie, WI
Bachelor of Science
Major: Applied Mathematics/Computer System Integration

Madison Area Technical College (MATC), Madison, WI
Associate Degree in Electronics