

Richard L Holbert

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OBJECTIVE To utilize my skills and creativity in a fast paced, high tech, team oriented environment.

EDUCATION United States Air Force Academy, Colorado Springs, CO
B.S. in Engineering;

Additional course work includes:

Linguistics, Database Design, Computer Architecture, Assembly Language, C, C++, Java, COBOL, Data Structures, Discrete Mathematics, Logic, Cryptography and Data Security, Software Verification and Validation, Software Generation and Maintenance, Principles and Application of Software Design, Specification of Software Systems, and Software Engineering Concepts.

WORK EXPERIENCE *Signal Officer* **Ohio Joint Force Headquarters**
Columbus, OH **Dec 2004 – present**
Member of the Ohio Army National Guard. Supported Ohio National Guard Joint Force Headquarters J6. Advised J6 on matters of Computer Software, Computer Security, and Radio Communications. Ohio Computer Emergency Response Team (CERT) Automation Officer. Recognized Subject Matter Expert. Taught antenna theory block of instruction while attending Signal Officer Advanced Course.

Linux System Manager **The Center for Human Resource Research**
Columbus, OH **Jan 2004 – present**
System Manager for twenty-five plus mission critical Linux Servers (including Oracle Database, Oracle Application, Email, FTP, File, Print and Web Servers). These servers were used to support national surveys and data analysis for the Bureau of Labor and Statistics. Responsible for installation, security and maintenance of server hardware, operating systems, and software applications. During this period, I attended OSU as a three quarter full-time student.

Systems Developer/Engineer **The Ohio State University**
Columbus, OH **Mar 2001 – Jan 2004**
Technical Lead for Campus Wide, Replacement Email System. Activities Included: Requirements Collection and Analysis, Product Evaluation, Product Recommendation, Work Breakdown Structure, Hardware Installation, Software Installation, Hardware/Software Integration, and Change Management. Also responsible for shared, 24x7 system administration of 40+ production Sun Solaris servers. Developed Python scripts to synchronize 100,000+ user accounts stored in the Remedy Action Request System with LDAP. Selected to speak at the O'Reilly Open Source Software Convention (San Diego 2001).

Unix System Administrator **Team America**
Worthington, OH **Oct 1998 – Mar 2001**
Lead Unix System Administrator. Ported multiple Corporate Web Sites from Netscape Server on Windows NT to Apache on Linux. Implemented multi-zone Domain Name Servers using Linux. Utilized PHP to integrate Oracle Database with Dynamic Web Pages. Integrated Oracle data with dynamic Acrobat PDF files. Setup remote Linux based File and Print Servers using Samba. Used rsync and ssh to automatically detect and propagate changes to Oracle forms and reports to remote file servers. Configured routers, switches, hubs, and firewalls. Used Secure Shell (SSH) and VNC to remotely administer Unix and Linux servers. Result: Reduced operating costs, improved network performance, and increased server availability.

Assistant Manager, Network Operations **Ameritech**
Columbus, OH **Jul 1997 – Oct 1998**
Responsible for the maintenance and planning of 25+ Cell Sites. Upgraded Columbus Cellular network to use CDMA. Duties included installing, testing and diagnosing facilities (T-1 Lines, CSU/DSUs, Micro-Wave Links), Radio Frequency Equipment, and Cellular Digital Packet Data (CDPD).

Staff Engineer

Dayton, OH

Developed a hypertext based decision support system to display diverse information on hazardous chemicals, Air Force utilization, along with alternative chemicals and processes. The system was designed using MaxThink and the Perm Decision-Tree Builder. During the design process I discovered how to simplify the implementation of the Analytical Hierarchy Process (AHP) using decision trees and eliminated the traditional use of Matrix Mathematics.

International Consultants

Jan 1997 – Jul 1997

Staff Engineer

Dayton, OH

Considered company's top Cryptography expert. Participated in Public Key Infrastructure (PKI) strategic planning. Developed vehicle locator system based upon GPS, packet radio modems, and digital moving map displays. Developed software to transfer wide-area differential GPS corrections to smart munitions. Assisted Air Force in the transition from Military Specifications and Standards to Commercial Standards. Designed and Maintained Financial Management, Office Automation, and Suspense Tracking System using FoxPro for Windows.

ARINC

Jan 1995 – Nov 1996

Senior Software Engineer

Wright-Patterson AFB, OH

Chaired the Joint Logistics Commanders - Software Engineering Education and Training Functional Working Group. Air Force Representative to the DoD Joint Software Acquisition Management Education Working Group. Developed and Maintained information systems used to implement and track progress of Air Force Ozone Depleting Chemical (ODC) policy.

HQ Air Force Materiel Command

Sep 1991 – Feb 1995

Embedded Software Engineer

Andrews AFB, MD

Member of IEEE POSIX standards development team. Directed transition of Mission-Critical Computer Resources technology into weapon systems. System Program Manager for Air Force Computer Resource Management Technology program with \$20M annual budget. Developed and Implemented office automation systems and computer security policies. Executed Air Force Systems Command Ada programming language policy. Demonstrated remote hypertext information retrieval system prior to the inception of the world wide web.

HQ Air Force Systems Command

Dec 1988 – Sep 1991

Lead Systems Engineer

Wright-Patterson AFB, OH

Lead Systems Engineer for \$21M B-1B Cockpit Procedures Trainer. Directed team of eight engineers and aircrew members in verification of trainer performance specifications. Conducted several Software Configuration Audits.

Training Systems Program Office

Jun 1986 – Dec 1988

SPECIAL SKILLS

Operating Systems: Linux, OpenBSD, FreeBSD, Solaris, BeOS and Windows 95/98/2000/XP.
Programming Languages: Java, Python, Jython, PHP, C, C++, COBOL, and Ada.
Assembly Languages: Sparc, 6502, 8080, 80x86.
Human Languages: Spanish and Esperanto.
Secret Security Clearance.

HONORS AND AWARDS

ARINC Division Recognition Award for Outstanding Performance.
Python IMAP Standard Library Contributor.
Numerous Military Awards and Citations.
Ameritech Outstanding Service Award.

PUBLICATIONS AND PRESENTATIONS

R. Holbert, "[Avoiding Type 3 Bitmap Fonts in PDFs](#)," Free Software Magazine (March 2002).
R. Holbert, "[Micro Publishing](#)," O'Reilly Open Source Software Convention (San Diego 2001).
R. Holbert, and M. Nielsen, "[Micro Publishing](#)," Linux Gazette, Vol. 47 (November 1999).
R. Holbert, "Future of Software Engineering Standards," IEEE Software Standards Conference (1994)

REFERENCES

Available upon request.