Michael Allen Hotka

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HIGHLIGHTS OF ACHIEVEMENTS:

- 12+ years of experience developing aerospace software
- 20+ years of experience developing real-time, telecommunications systems
- Have current DoD Top Secret Clearance with SSBI and SCI
- Support independent, simultaneous tasks proving project cost savings
- Learn and use new concepts and processes easily
- Take conceptual ideas through all software phases to yield a working product
- Create software products to make my customers' job easier
- Analyze difficult problems and create viable solutions
- Awarded Software Process Patent 5,452,415, September 19, 1995

WORK EXPERIENCE:

January 2003 to Present- ***Development Programmer***
Ball Aerospace and Technologies Corp., Boulder, CO.

- I supervise 7 junior engineers, mentoring them in their career growth.
- I support a team that builds databases for spacecraft systems and another team that builds tracking systems.
- I support many programs simultaneously, proving a standardized interface and cost savings to my company.

August 2009 to December 2009- ***Adjunct Professor***
Front Range Community College., Westminster, CO.

- I taught the AST-101 Introduction to Astronomy course to 21 students at Front Range Community College.

January 2004 to Present- ***Assistant Webmaster***
Astronomical League

- I support this non-profit's website by maintaining the many observing program's web pages.

July 2000 to January 2003 - ***Development Programmer***
SUN Microsystems, Broomfield, CO.

- Helped design, code and maintain an internet based, remote monitoring system. This system polls and pushes information between SUN hosts and servers using various proprietary protocols. This product uses PERL, C++ and JAVA languages.
- Designed, coded and maintained new features for a Computer Telephony Integration product that is used in SUN's Customer Care Center world-wide. The programs I helped maintain and enhance were written in both the C and JAVA programming languages.

February 1996 to July 2000 - ***Member Technical Staff***
AT&T Bell Labs/Lucent Technologies-A Bell Labs Innovation, Denver, CO.

- Designed and coded a test automation system for the Definity product using the C++ programming language. Evolved the automation test environment by creating a new process and tools to support the process. These tools were created using UNIX Shell scripts, C programs and PERL programs.
- Added new boards to the Lucent's Definity PBX product. Worked on the project that created and interfaces Voice over IP to the Definity product line.

July 1992 to February 1996 - ***Computer Programming Consultant***
Worldwide Computer Services Inc./Computer Horizons Corp., Denver, CO.
Client: AT&T Bell Labs-July 1992 to February 1996

- Designed and coded the initialization and recovery subsystems for the DACS VI-2000 product using the C programming language.
- Enhanced software process messaging subsystem using the C programming language.
- Supported System Cross-Connect Timing debug efforts and implemented software solutions for the problems discovered.
- Learned the SDH protocol.

August 1986 to July 1992 - ***Senior Technical Staff Member***

Rockwell International/Alcatel Network Systems, Richardson, TX.

- Team Leader for Cross-Connect Management System. Designed and implemented this system for all the Rockwell domestic cross-connect products using UNIX shell scripts.
- Created TL1 interface program to talk with established Network OS Systems using the C programming language.
- Created/modified UNIX tools, including writing elaborate UNIX shell scripts.
- Created and enhanced software for Data Collection Processing System using the C programming language. Also created detailed test procedures for this product line.

Technical Staff Member IV

Digital Switch Corp., Plano, TX.

- Created software systems for the Class 5 product development using the C programming language.
- Enhanced and supported software for a Signal Transfer Point Switch.
- Learned the CCITT Signaling System #7 protocols, along with the software of the Level 3 subsystem of a high speed packet switch.

Technical Staff Member II

Northern Telecom/Bell Northern Research, Richardson, TX.

- Created software to connect multi-function towers together into a wide area network via a packet switch subsystem using a PASCAL programming language.
- Enhanced and supported the Danray CTSS Tandem Switch using the C programming language.

Technical Staff Member I

Datapoint Corp., San Antonio, TX.

- Enhanced and supported the Datapoint Automatic Call Distributor (ACD) product using Datapoint and Zilog Z8000 assembler programming languages.

Technical Staff Member II

Rockwell International, Cedar Rapids, IA.

- Developed software for the Automatic Call Distributor (ACD5) product developed using Data General assembler programming language.

EDUCATION:

Bachelor of Arts Degree, PHYSICS and COMPUTER SCIENCE, University of Iowa, Iowa City, Iowa.

Masters of Science Degree, COMPUTER SCIENCE, University of Texas at Dallas, Richardson, Texas.

Masters of Science Degree, MISSION OPERATIONS and SPACE MANAGEMENT, Webster University, Denver, Colorado.

Know American Sign Language.

LANGUAGES:

Use C, C++, JAVA, PERL; UNIX Shell Script language; Oracle & Sqlite3 SQL; Software Automation Testing. OASIS/CSTOL and Eclipse. HDF5. HTML Web Development. Use UNIX, MAC & PC development environments.

PUBLICATIONS:

- *Guide to the Globular Cluster Observing Club* published by the Astronomical League.
- *Observing Globular Clusters*, Reflector Magazine, 2009.
- *What Am I Going to Observe Tonight?* Reflector Magazine, 2011.
- *Set Some New Observing Goals This Year,* Reflector Magazine, June, 2014.

PROFESSIONAL ORGANIZATIONS:

- Jet Propulsion Laboratory Solar System Ambassador
- Astronomical League of Amateur Astronomers
- National Parks Volunteer Sky Ranger