

# Michael I Schwartz

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## SUMMARY

Extensive hands-on experience in systems and software engineering with emphasis on development methods and tools, incorporating new technology, and mathematical techniques. Technical excellence in multi-language development, software concepts, design, and development.

Focus on team building, mentoring, technology insertion, and new business opportunities.

## CAPABILITIES AND ACHIEVEMENTS

Led system design, software design, and implementation teams in completing multiple successful projects. Succeeded in both mission critical applications with severe time constraints and research and development projects with technology insertion goals.

In-house expert consultant and implementer for UNIX, C, C++, and OO.

Designed and implemented software products and interfaces, and integrated hardware and software.

Experience ranges from “big picture” design to device driver implementation.

Designed and implemented technology transfer courses and products for Lockheed Martin projects, including applying object-oriented techniques.

Designed and implemented graduate level courses in computer topics for the University of Denver.

## EMPLOYMENT OVERVIEW

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### Lockheed Martin

PO Box 179, Denver Colorado 80201

*1981 — present*

#### **Lockheed Martin Fellow** (2008-present)

Provide technical leadership to wide variety of new business pursuits, as well as mentoring and technical support to continuing projects. Areas of focus include operating systems, multi-language and multi-vendor implementations, technology roadmaps, evolutionary roadmaps, innovation, and information management strategies.

#### **Space Radar Chief Software, Ground, and User Architect** (2003 – 2008)

Provide technical direction and technology development to the ground-based architecture, as well as both space and ground-based software architecture.

#### **Senior Manager** (1997-1999, 2002-2008)

Provide leadership, career and development opportunities, assessments, salary planning, rewards and recognition, and mentoring to department of 12-35 senior contributors and architects.

#### **Senior Staff Engineer** (1991-1997)

Technical lead and chief system engineer for tasking, processing, exploitation, and dissemination (TPED) independent R&D activity. Project focus is application of modern technologies (component-based design and implementation, collaborative infrastructure) and implementation techniques (Java, CORBA, DOM, XML) to real-time and off-line producers and consumers of large volumes of data and metadata.

Led System Architecture group for All Source Analysis System program. ASAS moved from C & FORTRAN, VAX/VMS, and text menus to C, Ada, C++, Tcl/Tk & other languages, POSIX/UNIX, and X/MOTIF. Client-server approaches were used for both database (Oracle) and other processing (OSF DCE); web technology inserted to promote distribution of intelligence products. Recognized by both management and customer as a long-term major contributor to the success of this program. Work led to several additional multi-year contracts with Canadian government and DARPA. Led team to achieve DoD's first Common Operational Environment (COE) Mission Application at Level 6, and first

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Army program certified compliant with COE.

Provided major portions of system and software architecture and implementation strategy for All Source Analysis System for the Army. Responsible for technical sections in the proposal, with contributions recognized as a substantial factor in winning the contract.

Designed, created, and presented courses in object oriented analysis, design, and C++ implementation; led Tcl/Tk seminars; guided system administration, technology transfer, and software process work. Methods developed became part of the standard Lockheed Martin Astronautics process.

## University of Denver

2211 S. Josephine, Denver, Colorado, 80208

1988--2009

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### University College Instructor (1988-2009)

Taught Java, XML, Database, C++, C, OOA/OOD, UNIX courses. Highly rated by students.

## EDUCATION

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### University of Colorado, Boulder, Colorado

1983-1984 Postgraduate studies

### Michigan State University, East Lansing, Michigan

1978-1981 Received M.S. Mathematics in May 1980

### Case Western Reserve University, Cleveland, Ohio

1972-1978 Received B.S. Mathematics in June, 1976

## ORGANIZATIONS

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USENIX

## OTHER FACTS

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### OPERATING SYSTEMS:

Proficiency Expert: UNIX (BSD, SysV, Posix), Windows.

### SOFTWARE LANGUAGES:

Proficiency Expert: C, C++. Released several popular Tcl/Tk extensions.

### AWARDS:

- ☛ Lockheed Martin Fellow, 2008-2010
- ☛ Three patent application awards, 2002-2003
- ☛ Management and Data Systems Information System Architect certification, 2001
- ☛ Inventor of the Year Award, 2001
- ☛ Intellectual Property Special Award, 2000
- ☛ Employee Commendation, 1985, 1987, 1993, 1994, 1997, 1998, 2003, 2004, 2007
- ☛ Promotions, 1985, 1988, 1991, 1997
- ☛ Peer Awards (Mentoring in OOA, OOD), 1993, 2001, 2003
- ☛ US Army Commendation, 1998
- ☛ Project Special Incentive Awards, 1993, 1994, 2004, 2008
- ☛ Corporate Technical Achievement Award, 1995, 1997

### PUBLICATIONS:

Tsunami Software Infrastructure (2000), Use of Enabling Techniques Leveraging COTS To Provide Rapid Insertion and Migratory Integration in the All Source Analysis System (1997), Ada Implementation of Operating System Dependent Features (1986), plus over 100 published internal technical memoranda.