

Gregory M. Harrison

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OBJECTIVE: To manage and perform software development for a challenging aerospace-focused company that offers career advancement.

SKILLS

LANGUAGES: Visual C++ 6.0, gcc 2.9x-3.0, MIPSpro C++, Forte C++, HTML, XML, Ada95, Ada83, Perl, Java, C shell, SQL, MODSIM, Pascal, 8086 Assembly

SOFTWARE: CVS, ClearCase, OpenGL, OpenInventor, Qt, PowerPoint, Word, Excel, Access

PLATFORMS: WinNT/2K/XP, Win95/98, Linux, IRIX, Solaris 7-8, AIX, MSDOS

HARDWARE: SGI Onyx2 Infinite Reality, SGI Octane, Pyramid/Fakespace Systems CAVE

EXPERIENCE

January 2002

to present

Development Section Chief—Satellite Assessment Center

Air Force Research Laboratory: Kirtland AFB, NM

- Leads 16-person team (9 government, 7 contractor) to research and develop advanced tools providing space situational awareness to operational and laboratory customers
- Directs and integrates the activities of 40 officers and senior contractors, directly supervising and managing four PhDs
- Conducts advanced research into automation of satellite health and status determination from current and future intelligence sources
- Briefs national-level decision-makers, building advocacy/visibility of technologies
- Interfaces with senior officials within HQ USAF, Air Force & US Space Commands, and national intelligence agencies
- Manages joint research with Canadian Department of National Defense

April 2000 to

January 2002

Program Manager—Intelligence Data Analysis System for Spacecraft (IDASS)

Air Force Research Laboratory: Kirtland AFB, NM

- Planned and executed injection of intelligence data fusion research within a three-week operational experiment (JEFX 2000), providing unparalleled space understanding
- Managed the execution of over \$2M in contract-funded research and development
- Integrated disparate nationwide user requirements, aligning with, and helping to realign headquarters-level direction for future budgets
- Briefed senior decision-makers (including three-star Air Force Chief of Intelligence) on advanced research capabilities
- Incorporated first use of a national intelligence source within in operation environment, synchronizing multi-site cross-country operations
- Lead and participated in software development of an object-oriented C++ image processing and 3D visualization application, coordinating local and distributed contractor development

August 1999 to

April 2000

Software Engineer—Advanced Data Exploitation Team (Satellite Assessment Center)

Air Force Research Laboratory: Kirtland AFB, NM

- Ported top-ranked \$15M Advanced Technology Demonstration to Solaris platform and compiler, broadening customer base to new intelligence organizations
- Provided on-site technical support and requirements development integration laboratory products into multiple operational environments
- Briefed project status to senior leaders within US and Air Force Space Commands

July 1996 to
August 1996

Technical Co-op— Advanced Data Exploitation Team (Satellite Assessment Center)
Phillips Laboratory (USAF): Kirtland AFB, NM

- Leveraged computer graphics experience with OpenGL to convert a key national-level satellite modeling tool from purely line-drawn graphics to solid shaded 3D
- Received letter of appreciation from Satellite Assessment Center director for four-week college activity

EDUCATION: Master of Science in Computer Science (March 1999)

Air Force Institute of Technology: Wright-Patterson AFB, OH

GPA: 3.91 of 4.00

Thesis: Real-Time Airdrop Visualization in a Virtual Environment

Bachelor of Science in Computer Science (April 1997)

Embry-Riddle Aeronautical University: Daytona Beach, FL

GPA: 3.96 of 4.00 (Summa Cum Laude)

TRAINING: Basic Communications-Computer Officer Training (June 1999)

Air Education and Training Command: Keesler AFB, MS

Distinguished Graduate

Fundamentals of System Acquisition Management (November 1999)

Defense Systems Management College: Fort Belvoir, VA

Level I Certification – Systems Planning, Research, Development, and Engineering

CLEARANCE: TOP SECRET (Active)

HONORS:

President's Award for Outstanding Graduate Spring 1997, AFROTC Detachment 157
Distinguished Graduate, AFRL Directed Energy Directorate's Company Grade Officer of the Quarter-Q2 2001

ACTIVITIES: Private Pilot's Certificate, Weightlifting, Tennis