

Roy C. Sigsbey

1704 Hermitage Drive

Round Rock, TX 78681

Phone: (831) 915-0011

E-Mail: rosby@yourwish.com

Summary

Computer Software Engineer/Analyst with many years experience in applications analysis and development. Successful track record with a wide range of commercial software companies and government agencies such as NASA and the Department of Defense, from small projects to part of a team of engineers and developers. Built a reputation of excellence with C/C++, UNIX and Linux, user interfaces, computer graphics and multimedia. Naturally focused on getting the job done in a high quality manner.

Notable Accomplishments

- Several years at Rosby, Inc., as an independent business owner sharpened drive and ability to understand and meet diverse client needs.
- Learned full system at Oceaneering International, Inc., and came up to speed fast enough to help lead system integration testing.
- Developed more than 15 casino slot games at Bally Technologies, Inc., that passed third party testing and quality on the first attempt.
- While at Ford Aerospace, applied for a Patent for User-System Interface Prototyping System (USIPS), a rapid prototyping system designed to be used by non-programmers.

Experience

AeroTek Inc.

Software Engineer at Oceaneering International, Inc. Austin, TX 4/2014 - 2/2015

Global manufacturer and operator of deep sea oil and gas services and equipment. Responsibilities included development, coding, and testing of ROV (remote operated vehicle) software.

- Employed new and old graphics and GUI tools to improve existing software and tools.
- Utilized C/C++, Microsoft Visual Studio and other libraries and tools for development.

Bally Technologies, Inc.

Firmware Engineer Reno, NV 8/2003 - 6/2013

Global maker of casino systems and slot machines. Responsibilities included development, coding, and testing of lottery games software.

- Incorporated custom design requirements, artwork and audio files.
- Employed video or mechanical reels, real-time animations, and fail-safe recovery.
- Utilized C/C++ and Linux for development.
- All recent games (15+ within last 2 years) passed third party testing and quality on the first attempt.

Rosby, Inc.

President Colorado Springs, CO 7/1999 - 8/2003

Founded Rosby, Inc., a computer software and consulting services company. Responsibilities included new business development, management of client requirements, and providing customized solutions and services.

- Negotiated a Department of Defense sub-contract and created a 3D mapping and visualization application.
- Maintained in-house UNIX and Linux software development environments.
- Applied user interface, X-Windows, and 3D graphics (OpenGL and Open Inventor) technologies per client requirements.
- Performed internet and computer consulting.

Contract Work

Software Contractor Colorado Springs, CO *6/1993 - 7/1999*

Variety of analysis and software work conducted via contract with Princeton Information, Streffco Consultants, Space Applications Corp., EDP Contract Services, Telos Consulting, Add Staff, Compuware Corp., and National Systems & Research Co.

- Client: IPS Meteostar - Weather map generation and display software system. Responsibilities included software design and development and system administration.
- Client: Micromedex, Inc. - Medical information database in HTML, distributed on CD. Responsibilities included software porting and development of application to query medical information data base using SQL and creating an HTML encoded CD for distribution to clients.
- Client: Space Applications Corp. for the US Department of Defense - Simple air traffic radar system and a modeling and simulation application. Utilized a strong understanding of user interfaces and 2D graphics to give both applications a much more robust front end and new features.
- Client: MCI, NGSN Group - Graphical user interface application development. Applied UNIX Curses library for internal application user interface development.
- Client: Litton-PRC - US Government GEODSS satellite control systems software development. Utilized Ada as the primary language and XWindows and Motif for the user interface.
- Client: Kaman Sciences - US military CCPDS-R development. Utilized Ada for the development language.
- Client: MCI, NetworkMCI Video Conferencing Group - Responsibilities included updates and enhancements for MCI's Video Conference Scheduling software. Found and fixed a pre-existing major problem that was causing the software to crash after just a few hours of runtime. After the fix, the application ran for extensive periods without fail.
- Client: US Space Command GPS ground command and control systems. Utilized Ada and JOVIAL for modules development.

CAE-Link Flight Simulation

Software Engineer III NTF, Falcon AFB, CO *5/1991 - 4/1993*

US military ARGUS real time command and control system simulator. Responsibilities included design for enhancements and maintenance of the US ARGUS system consisting of 2 Crays and 45 Silicon Graphics workstations.

- Applied UNIX, C/C++, FORTRAN, Silicon Graphics GL, XWindows and Motif for development.

Ford Aerospace Corp.

Senior Software Engineer Colorado Springs, CO *11/1985 - 3/1991*

US Department of Defense contract company. Responsibilities included an IR&D project for User Interface Research, US Army MCS system development, and acting network administrator.

- Created and developed a rapid prototyping system which could be used by non-programmers.
- Conducted user interface design and testing to evaluate various techniques for placement, content, and color, to determine the impact on work loads and success.

Senior Engineering and Scientific Programmer / Analyst Houston, TX *11/1981 - 11/1985*

NASA contract company. Responsibilities included database and terminal presentation software for Shuttle Data Tapes, and, ultimately, lead software engineer for NASA Mission Control Center main large screen display replacement system.

Lockheed EMSCO

Programming Assistant Houston, TX *8/1979 - 11/1981*

NASA Space Shuttle Avionics Integration Lab (SAIL) - maintenance and development of systems.

- Systems with 16 bit front panels (binary switch programming), others with primitive dumb terminals and used COBOL, FORTRAN, and assembly languages.

Education and Training

Colorado Tech, Colorado Springs, CO

1991: Professional Certificate Program in Ada Programming

1996: Object-Oriented Programming Using C++

1996: The Java Programming Language

University of Colorado at Colorado Springs, Colorado Springs, CO

1987: Continue work toward Masters in Computer Graphics

University of Houston at Clear Lake, Houston, TX

1979-1983: Bachelor of Arts Degree in Computer Information Systems

1984-1985: Work toward Masters in Computer Graphics

San Jacinto College, Pasadena, TX

1975-1979: Associate of Applied Science Degree in Computer Science

Skills

Primary:

C/C++	30+ yrs
Unix/Linux	30+ yrs
User interfaces	20+ yrs
Computer graphics, 2D/3D	20+ yrs
HTML and Internet	15+ yrs

Also Experienced with:

SQL and database operations
Unix and Linux Sys Adm
Ada, FORTRAN, COBOL, Java,
Microsoft Visual Studio,
Assembly Lang., Machine Lang.