

# **Roy C. Sigsbey**

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## **Summary**

A Computer Software Engineer/Analyst with 25 years experience in applications analysis, development, user interfaces (including graphics, multimedia, voice), HTML and web development, operating systems, networking, and Unix and Linux system administration. Trained in, and experience with C++, Java, and Object Oriented Design and Methodologies. Also experience in hardware setup and config for various standalone machines and networks. Work has been done for 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. My most recent experience has been with C/C++ on Linux systems developing lottery and casino games and gaming solutions.

### **Strengths:**

Unix	21 yrs	C++, Linux, Linux Sys Adm	7 yrs each.
C	21 yrs		
XWindows/Motif	17 yrs		
UNIX Sys. Adm.	19 yrs		
SQL	10 yrs		
HTML	9 yrs		

### **Experienced with:**

Windows95/98/NT/Me/XP, OS/MVS,  
Ada, FORTRAN, COBOL, Java,  
Assembly Lang., Machine Lang.

## **Education and Training**

### **San Jacinto College, Pasadena, TX**

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

### **University of Houston at Clear Lake, Houston, TX**

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

1984-1985: Begin work on Masters

### **University of Colorado at Colorado Springs, Colorado Springs, CO**

1987: Additional work on Masters

### **Colorado Tech, Colorado Springs, CO**

1991: Professional Certificate Program in Ada Programming

1996: Object-Oriented Programming Using C++

1996: The Java Programming Language

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## **Related Work Experience Highlights**

***August, 2003 – Present:***

**Firmware Engineer (contractor, then employee)  
Sierra Design Group, Reno, NV**

- Developing lottery and casino games and gaming solutions utilizing C/C++ on proprietary hardware running specialized versions of Linux.

***July, 1999 – August, 2003:***

**President (Self Employed)  
Rosby, Inc., Colorado Springs, CO**

- Various contracts for updates and maintenance of complex software systems. Inhouse facilities for UNIX and Linux software development, Internet consulting, and general computer consulting.

***June, 1999 – July, 1999:***

**Software Contractor  
Agency: Princeton Information, Colorado Springs, CO  
Client: IPS Meteorstar, Inc.**

- Upgrades and fixes to weather map and data generation and display software, also primary system administration duties for UNIX and Windows NT - UNIX, C, XWindows/Motif. About half of hours were performed from my office at home.

***November, 1998 – June, 1999:***

**Software Contractor  
Agency: Streffco Consultants, Inc., Englewood, CO  
Client: Micromedex, Inc.**

- Porting, enhancing and developing software related to medical information databases for display using HTML methods - UNIX, C/C++, HTML. About half of hours were performed from my office at home.

***March, 1998 – September, 1998:***

**Software Engineer/Analyst  
Employer: Space Applications Corp., Colorado Springs, CO**

- Graphics and user interface modifications to DOD modeling and simulation projects - UNIX, C, XWindows/Motif. This employment was performed entirely from my office at home.

***August, 1997 - March, 1998:***

**Software Contractor  
Agency: EDP Contract Services, Colorado Springs, CO  
Client: MCI, NGSN Development Group**

- Development of Graphical User Interface elements and supporting functionality - IBM AIX, DEC UNIX, C, XWindows/Motif.

***April, 1997 - August, 1997:***

**Software Contractor  
Agency: Telos Consulting, Colorado Springs, CO  
Client: Litton-PRC**

- GEODSS Modification contract, development of Graphical User Interface elements and supporting functionality - DEC Alpha, UNIX, Ada, XWindows/Motif

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## **Related Work Experience Continued**

***July, 1996 - April, 1997:***

**Software Contractor**

**Agency: Add Staff, Colorado Springs, CO**

**Client: Kaman Sciences**

- CCPDS-R maintenance contract, maintenance and modifications to complex architecture system-VAX-VMS and Ada.

***July, 1994 - July, 1996:***

**Software Contractor**

**Agency: Compuware Corporation, Colorado Springs, CO**

**Client: MCI, NetworkMCI Video Conferencing Group**

- Lead Engineer for the Reservation Scheduler software subsystem - RS6000, Unix, XWindows/Motif, Sybase 10, C/C++.

***June, 1993 - January, 1994; March, 1994 - July, 1994:***

**Systems Analyst**

**Employer: National Systems & Research Co., Colorado Springs, CO**

- Design and updating of US Space Command Global Positioning Satellite ground control and status systems – Ada, JOVIAL, IBM AIX, OS/MVS.

***May, 1991 - April, 1993:***

**Software Engineer III**

**Employer: CAE-Link Flight Simulation Division, National Test Bed, Falcon AFB, CO**

- Design and updating of ARGUS real-time gaming simulator on a network of 2 Crays and 45 Silicon Graphics workstations - Unix, C/C++, FORTRAN, GL, XWindows/Motif.

***November, 1985 - March, 1991:***

**Senior Software Engineer**

**Employer: Ford Aerospace Corp., Colorado Springs, CO**

- User/System Interface Rapid Prototyping System (USIPS) development for human/machine interface research (2 patents pending relating to this) - SunOS, IRIX, HP-UX, C, XWindows/Motif.
- Part of development team for the US Army Maneuver Control System (MCS) E-Map transformation facility which converts Defense Mapping Agency (DMA) Advanced Digital Raster Graphics (ADRG) maps from CDROM's for use within MCS - HP-UX, C, ADRG, ISO-9660.
- Acting system administrator for a network of 40+ workstations (mostly Sun Microsystems and some HP and Silicon Graphics).

***November, 1981 - November, 1985:***

**Senior Engineering and Scientific Programmer/Analyst**

**Employer: Ford Aerospace and Communications Corp., Houston, TX**

- Lead software engineer for the design and prototyping of graphic systems for the Johnson Space Center Mission Control Center - UNIX and C.

***August, 1979 - November, 1981:***

**Programming Assistant**

**Employer: Lockheed EMSCO, Houston, TX**

- Maintenance and updates to a series of real-time applications for the Shuttle Avionics Integration Laboratory (SAIL) machines - SEL 32/70, Digital Scientific META 4 (emulating IBM 1130), FORTRAN, machine language and assembly language.