

# Jose Raffucci

## Software Engineer

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### EXPERIENCE

#### Senior Software Engineer

3/2005 - Present

Sierra Software/[Northrop Grumman](#)

Carson, CA

##### [Future Combat System/Network Management System \(FCS-NMS\)](#)

· Developed core functionality for the Army's next generation network management system. Designed, wrote and maintained software from requirements. Implemented Ip Planning functionality to allocate and manage ip networks. Responsible for writing, maintaining and debugging large parts of the project code base in a multi developer environment. Java (J2SE 1.4-1.6), Eclipse, Swing, Hibernate, DB2, RHEL 4, CentOS Linux, ClearCase, XmlSpy, XSLT, XPATH, Jmp profiler, JUnit, Clover, Ant.

#### Senior Software Engineer

1/2003 - 3/2005

Sierra Software/[Northrop Grumman](#)

Carson, CA

##### [Tactical Internet Management System \(TIMS\)](#)

· Ported network management and monitoring system from Solaris 2.8 and MiniSQL to Linux and Oracle 9i Lite/ODBC. Debugged and optimized existing code base. Augmented legacy functionality to satisfy new requirements. C, RH Linux 7.2, RH Linux 8.0, ClearCase, Oracle 9i Lite, ODBC, GNU Development environment, X-Designer.

#### Embedded Software Engineer

11/2001 - 3/2002

[Orangegrove Engineering](#)

Escondido, CA

Provided outsourced embedded software development.

##### [Precipitation Monitor](#)

· Developed software for low power instrument used to remotely measure and log rainfall over long periods. Debugged test board hardware. IAR Embedded Workbench, JTAG Debugging through TI MSP430 Flash Emulation Tool, SPI Memory and RTC, RS232 communications, TI MSP430 Ultra Low Power processor, No OS.

##### [Industrial Automation Controls](#)

· Reverse-engineered software for legacy products. Embedded components in product line had become obsolete, and functionally equivalent software had to be written to run on the updated hardware. IAR Embedded Workbench IDE, Atmel AVR Studio Debugger, NoHau 8051 ICE, Atmel AVR ICE, Atmel AVR 8-bit RISC processor, EPROM Programmers, Hex editors, no OS.

##### [Dental Film Scanner](#)

· Developed host driver, target USB interface and Win32 TWAIN Datasource. Keil uVision IDE, Infineon 161U processor, no OS. Microsoft Visual C++, Jungo Windriver, DosAdi GenDS TWAIN Datasource Toolkit, Windows 2000.

#### Software Engineer

6/1995 - 6/2000

Sierra Software/[TRW](#)

Carson, CA

##### [Force XXI Battle Command Brigade and Below \(FBCB2\)](#)

· Developed 2-D graphical system to display, process, and manage near real-time battlefield information acquired from military and COTS systems for the Army's Force XXI effort. Designed and implemented system UI. Solarisx86, Linux, GCC, X-Designer, Xt, Xm, XRT, GSDL, Tcl/Tk, MiniSQL, Perl, shell scripting, NIMA mapping, imagery, and vector data.

### Software Engineer (cont.)

#### [Warfighter Information Network - Tactical \(WIN-T\)](#)

- Developed graphical configuration system used to generate network routing tables along with organizational, and functional databases used by battlefield systems. Solaris, GCC/Gnu Toolkit, X-Designer, TCP/IP, Xt, Xm, XRT, MiniSQL.

### System Administrator

8/1995 - Present

[monger.net](#)

Huntington Beach, CA

- Ongoing maintenance and administration of Linux server for domain with 25 active users. Operate and maintain several eCommerce sites. VMWare ESXi (3.5-4.0), Ubuntu 6.10-8.04LTS, Red Hat Linux 2.1-9, Mandrake Linux 8.0-8.2, MySQL, Sendmail, Apache, DNS, DHCP, Samba, SSH, SquirrelMail, Postfix, Zen Cart, X-Cart, Adobe Illustrator, Adobe Photoshop.

### Software/Support Engineer

9/1993 - 6/1995

[Lockheed Sanders](#)

Nashua, NH

- Provided technical support and prepared proof of concept demonstrations for marketing group in contract acquisition efforts. SunOS, Solaris, SCO, HTML, Linux, GCC, Perl.
- Integrated MCG&I (Mapping Cartography Geodesy & Imaging) Display System product at customer sites. Solaris, SCO, GCC.

### Teaching Assistant

8/1992 - 12/1992

[RPI School of Engineering](#)

Troy, NY

#### [Laboratory Introduction to Embedded Controls \(LITEC\)](#)

- Demonstrated principles of microprocessor system design, C programming, assembly language interfacing, and control theory to students in hands-on laboratory sessions. M68HC11, No OS.

### Computer Support Specialist

6/1992 - 9/1993

[RPI - Lighting Research Center](#)

Troy, NY

- Created package to analyze lamp beam properties. ThinkC, MacOS.
- Developed smoke simulation theory and image processing software used for research on exit sign visibility. ThinkC, MacOS.
- Enhanced tool to aid in exploring lighting effects inside architectural models. CodeWarrior, MacOS.

### EDUCATION

1/1994

[Rensselaer Polytechnic Institute](#)

Troy, NY

**Bachelor's Degree** · BS in Computer and Systems Engineering

### ADDITIONAL COURSEWORK

12/2002 - UCI - Real Time OS Programming with uC/OS-II

### VERSION

This resume is current as of July 23, 2009. Created in OpenOffice 3.1/OSX and downloaded from <http://raffuj.monger.net/resume/> . Please see web site for the latest version.

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