

## **Jaya R. Carl, B.S.**

Quality Assurance Manager  
Qualified for Software Testing Management

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### **OBJECTIVE**

Position as a Software Testing Manager in a proactive quality assurance and test group. The group's mission is to obviate failures and errors through participation in the product life cycle from requirements phase through product retirement.

### **EXPERIENCE**

#### **SHANTI CENTER, San Jose, California; 2/2000 – present:**

Owner and School Head — Many hats, many skills (see list below). Moved out of the high tech sector when the dot.com bubble burst. Now looking to re-enter the software QA market when the right organization is found.

- Teach martial arts, self defense, yoga, qigong and restoration therapy
- Web site design and Webmaster for several businesses
- Wine makers assistant; Bent Creek Winery, Livermore Valley
- Lead health seminars for a HR firm's clients; Ann Clark Associates
- Therapist; Shanti Restoration Therapy
- Electrical, painting and building maintenance services; Just Repairs by Carl
- Board of Directors; Trusted Systems Laboratories
- National Manager of Communications, oversee quarterly magazine, marketing and website; AJJF Inc.

#### **ACIRRO, INC. (formerly: PRISMedia Networks), San Jose, California; 11/2001 – 7/2002:**

**QUALITY ASSURANCE MANAGER** — Acirro provided storage management enterprise software that efficiently managed distributed storage networking infrastructure. Successfully designed and implemented product testing with no staff and extremely limited hardware. Discovered product anomalies and focused on critical end user product areas. Documented product life-cycle for investor due-diligence. Responsible for configuration management and daily product builds. Chaired their Change Control Board and administered BugDB database.

#### **TRUSTED SYSTEMS LABORATORIES, San Jose, California; 8/2000 – 6/2001:**

**DIRECTOR OF PRODUCT ASSURANCE (8/00 – 6/01)** — Established product life-cycle, configuration management and quality initiatives for this startup software security company. Responsible for the quality of all products, processes and services.

#### **SUN MICROSYSTEMS, Palo Alto, California; 12/1992 – 7/2000:**

**SENIOR QUALITY OFFICER; 1/1999 – 7/2000:** Actively drive and manage quality initiatives in selected parts of this organization. Evangelized Quality Office services, including CQI, software maturity, RCCA, CLI, project scheduling, PRA, life-cycle management, BugTraq, steering committees. Verified quality requirements were satisfied prior to product release to manufacturing. Quality advocate in steering committee, planning

and review meetings. Key contributor to user requirement substantiation for new bug tracking system. Participated in corporate wide team for propagation of formal inspections.

**STAFF ENGINEER;** 8/1997 - 12/1998: Produced System test architecture and process design. Designed, planned and implemented improved configuration management schema for system test group incorporating CodeManager, UNIX file system hierarchy and web access method. Was responsible for supervising development of test suites using highly scientific, machine-intensive applications. Led process improvement initiative that facilitated cycle reduction, introduced new technology and improved professionalism. Produced software-anomaly metrics collection and publication for Sun Solaris via a web interface. Served as technical expert for Y2K Office for customers visiting to Sun to verify compliance.

**TECHNICAL STAFF;** 2/1995 - 8/1997: Collected/published Sun Solaris software anomaly metrics. Designed/implemented/maintained Solaris Product & Systems Engineering (SPSE) web site. Was system-testing engineer responsible for binary compatibility. Participated on SPSE process improvement teams. Was system test team lead for Year 2000 Solaris testing.

**QUALITY ENGINEER;** 12/1992 - 2/1995: SunFed senior test engineer for Trusted Solaris (a.k.a. CMW, derived from SunOS 4.1.3) product in the Secure OS group. Redesigned and implemented their audit component test suite. Wrote security relevant test specifications and implemented test cases for NCSC Evaluation of Trusted Solaris Version 1.1. Worked with partner to research, design and prototype a test engine that generated minimum sufficient test conditions set (from formal specifications) necessary to demonstrate specifications where completely and correctly implemented (U.S. Patent 5,892,947).

**INDEPENDENT CONSULTANT,** San Jose, California; 3/1996 – Present:

**WEBMASTER** — Providing web design and maintenance. Clients include:

<http://www.DanzanRyu.com/>      **Kodai No Bushido & Shanti Jujitsu Dojo;** 1998 - Present

<http://www.ajjf.org/>      **American Judo and Jujitsu Federation;** 1996 - Present

<http://www.AlternativeHealing.com/>      **Center for BodyHarmonics, Inc.;** 1996 - 1997

**TOUCH COMMUNICATIONS, INC.** (formerly: SAIC/OSD), Los Gatos, California; 4/1990 - 12/1992:

**QUALITY ASSURANCE MANAGER;** 9/1991 - 12/1992: Was responsible for measuring and auditing product development processes. Worked with project teams to document and refine development processes. Held per-process audits and reported findings. Instituted staff training program with emphasis on SAIC's procedures. Participated in documentation reviews, including new code and specification documents. Recommended, implemented and tracked quality and assessing processes metrics. Revised SAIC's review procedures to match with government and industry standards. As SAIC Commercial Technology Sector Quality Manager, began planning for sector wide ISO 9001 registration.

**TECHNICAL TEAM LEAD,** 9/1990 - 8/1991: Planned, designed, implemented and executed network software RISC-based UNIX workstation project tests. Wrote software quality assurance plan and master test plan for a 400 KSLOC project. Duties included test team management and project-status reporting. For outstanding contributions to this project, received Touch Builder Award. Was member of Touch Configuration Management Advisory

Board, chartered to make long-range CM policy decisions. Managed Macintosh-based multi-user anomaly tracking application, significantly enhancing the application functionality and usability, upgrading to IEEE standard software anomaly classifications (IEEE Std 1044-1993).

**SENIOR SOFTWARE ENGINEER;** 4/1990 - 8/1990: Generated, automated and executed test suites for OSI applications over LAN and WAN on a IBM RISC/6000 Workstation running AIX.

**INTELLIGENETICS, INC.,** Mountain View, California; 9/1983 - 4/1990:

**QUALITY ASSURANCE MANAGER;** 6/1986 - 4/1990: Manager of Configuration Management/Quality Assurance group. Established configuration management procedures for multi-system software applications and wrote documents and source code makefiles to follow configuration control. Helped establish product life-cycle system integrating testing and verification for each phase of the cycle. Designed, implemented and documented a bug enhancement database used to report and track bugs to resolution. Tested and verified software and data bank releases. Wrote requirement and functional specifications for test engine, and developed automated test procedures that used the engine for regression testing. Was test team lead for an object oriented Macintosh application.

Wrote new product and enhancement specifications. Worked closely with scientists and developers to design and implement new programs. Designed and implemented relational database meeting the needs of engineering, sales, customer support, production and shipping departments using Informix-SQL. Technical consultant to sales and customer support groups.

**PRODUCTION MANAGER,** 9/1985 - 6/1986: Responsible for configuration and production of multi-platform software and database products. Automated the software distribution process. Wrote VAX product manual for system managers. Wrote database formatting procedure manual for in-house use. Supported Sun Workstation customer accounts, which included considerable customer training duties. Established a Sun Workstation network for program development and production groups.

**SCIENTIFIC ACCOUNT REPRESENTATIVE,** 9/83 - 9/85: Supported IntelliGenetics software tools users for molecular biology. Trained small groups of molecular biologists to use computers and IntelliGenetics programs in designing experiments, recording data, interpreting results and analyzing DNA and amino acid sequences and data banks. Provided customer support for IntelliGenetics applications and workstations. Initiated automated software regression testing and production systems for both software and database products.

## **RELATED EXPERIENCE**

**Dr. Sarane Bowen, Ecological Isolation of Artemia Project** — San Francisco State University, San Francisco, CA

**RESEARCHER;** 6/1981 - 9/1983: NSF Grant: Ecological Genetics of *Artemia*. Studied ionic tolerances of *Artemia*. Cultured invertebrates, developed synthetic culture media for brine shrimp, performed genetic crosses, statistical analyses of results. Wrote and maintained computer programs to facilitate analyses of data collected by research group.

## TECHNICAL SUMMARY

**AUTOMATION TOOLS:** Make, sh, tcl, XRunner, TST, Icenine, SAFE  
**LANGUAGES:** C, HTML, Perl, SQL, PASCAL, LISP, FORTRAN, BASIC  
**COMPUTERS:** Sun Microsystems, IBM RISC/6000, Macintosh, VAX, IBM PC  
**OPERATING SYSTEMS:** FreeBSD, UNIX, Solaris, Windows, Trusted Solaris, AIX, LynxOS, Mac OS, VMS

## EDUCATION

**Certificate: UNIX Programming**, 1995; University of California, Santa Cruz.

**Certificate: Project Management**, 1992; University of California, Santa Cruz.

**Degee: B.S. Biology**, 1983; San Francisco State University, Magna Cum Laude  
Concentration: Marine Biology and Limnology; Minor: Computer Science.

## PUBLICATIONS

**Article: *Perspective; The Best Laid Plans***, Software Testing & Quality Engineering, November/December 2000, Volume 2, Issue 6, page 60. An interview with Jaya R. Carl by Alyn Wambeke.

**U.S. Patent: 5,892,947 - *Test support tool system and method***, April 6, 1999. A test support tool system and method which includes a module establishing a logical description of selected features of a selected software architecture, such as operating system security features; a module for producing test cases, and a module for synthesizing a minimalistic suite of test programs.

**Article: *Classifying Anomalies - What Good Does It Do, And How Do You Do It?***, by Jaya R. Carl (presenter) and Cynthia L. Brehmer, at the 6th Annual Conference on Automated Software Test & Evaluation (ASTE '96), Tysons Corner, Virginia, March 26-27, 1996.

Pamphlet: IEEE Guide to Classification for Software Anomalies, IEEE Guide 1044.1-1995, ISBN 1-55937-697-X, approved December 12, 1995. (Co-chair of the Classification Guide Working Group which wrote the guide.)

Pamphlet: IEEE Standard Classification for Software Anomalies, IEEE Std 1044-1993, ISBN 1-55937-383-0, approved December 2, 1993. (Secretary of the Classification Standards Working Group which wrote the standard.)

**Paper:** Presented ***Incorporating IEEE Std 1044 Into Your Anomaly Tracking Process*** by Cynthia L. Brehmer and Jaya R. Carl at the 3rd International Conference on Applications of Software Measurement, La Jolla, CA, November 15-19, 1992. Reprinted in CrossTalk, 40: January 9-16, 1993.

Paper: *Ecological isolation in Artemia: population differences in tolerance of anion concentrations*: Sarane T. Bowen, Emil A. Fogarino, Kenneth N. Hitchner, Gayle L. Dana,

Victor H. S. Chow, Martin R. Buoncristiani, and Jaya R. Carl. Journal of Crustacean Biology, 5(1):106-129, 1985.

#### **PROFESSIONAL ASSOCIATIONS**

**ASQ**      The American Society for Quality, *Certified Software Quality Engineer* (CSQE)

**IEEE**      The Institute of Electrical and Electronics Engineers

**LAWST**    Los Altos Workshop on Software Testing

**SSQA**      The Santa Clara Valley Software Quality Association, a section of the ASQ