

# ROBERT J. LIGUORI

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## **JAVA RELATED EXPERIENCE**

- LEADERSHIP:** Founder and president of the Atlantic City Java User Group  
Founder and former president of the Tech Center Java User Group
- PUBLICATIONS:** - Lead Author, NetBeans; Sun Certified NetBeans IDE Specialist Study Guide (CX-310-045), McGraw-Hill, Planned for release in 2010  
- Lead author, SCJA; Sun Certified Java Associate Study Guide (CX-310-019), McGraw-Hill, September 2009  
- Lead author; Java Pocket Guide, O'Reilly Media, Inc., March 2008
- CERTIFICATIONS:** Studying for Sun Certified Enterprise Architect Certification  
Sun Certified Java Programmer, February 2008,  
Sun Certified Java Associate, January 2007,
- PRESENTATIONS:** Speaker: Stockton College, Java Users Practicing Professional Networking, Sept 2008,  
Co-presenter/organizer: FAA Speaker Series; J2SE Language Features, August 2007,  
Co-presenter/organizer: FAA Speakers Series; Java Applications and History, May 2007

## **SOFTWARE EXPERIENCE**

Computer Aided Engineering Tool experience includes Enterprise Architecture by Sparx Systems

Programming and scripting languages include Java, C/C++, Tcl/Tk, Qt, HTML, CSS and shell scripting. Communications protocols experience includes limited experience in TCP/IP.

Operating systems experience includes AIX, Linux, Solaris, DOS, and VM/MVS.

Programming and design experience includes object-oriented design, object-oriented programming and procedural programming.

Limited experience with ADA, BAL, JOVIAL, Motif, OpenGL, TAL, Network Programming, and XML.

## **NATIONAL AIR SPACE OPERATIONAL SYSTEMS**

Business Systems: CMAS, SAMU. Enroute Systems: CPDLC, DSR, ETMS, ECG, HOST, MPS, SDRR, RAPPI  
Oceanic Systems: ATOP, ODAPS, OFDPS, LBR, S1R. Terminal Systems: FIRS, LSCIP, RATTLES, RSCP, RSCIP

## **PROFESSIONAL EXPERIENCE**

**Gliesian, LLC, New Jersey**

*Chief Information Officer and Developer (Present)*

-- Software developer, speaker and author.

## **ASRC Research and Technology Solutions, Alaska Native Corporation**

*Computer Scientist (July 2009 - September 2009)*

-- Performed analysis and development work for FAA related branding to non-compliant websites. Tools and technologies used included IIS 6.0, Microsoft Visual Studio 2008, ASP .NET and cascading style sheets.

## **Business and Administrative Services, Inc, Hammonton, NJ**

*Engineering Specialist I (Senior Software Engineer) (November 2006 - July 2009)*

-- Performed Architect/Designer/Developer/Test/Deployment roles on the Java EE Contract Management Automation System (CMAS). Made heavy use of the Enterprise Architect UML modeling CASE tool for creating requirements, use cases and deployment diagrams. Additional APIs and tools used included (but not limited to) NetBeans IDE, Eclipse IDE, JDeveloper IDE, Geronimo Application Server, Oracle Application Server, Glassfish Application Server, Apache Software Foundation Tools (MyFaces, MyFaces Tomahawk, MyFaces Trinidad, ActiveMQ, Mavaen, Commons, Jackrabbit, Jakarta ORO), Security API (Jasypt), Builds and controls (Subversion, Subclipse, Tortoise SVN, CollabNet SVN), Java EE APIs (JavaServer Pages, Servlets API, Enterprise Java Beans, JavaServer Faces, JavaMail, JSTL API), Java SE APIs (Java Naming and Directory Interface, Java Database Connectivity, Logging, Utilities, Basic I/O and Text APIs) and PDF support (iText API).

-- Performed various tasks with Microsoft Sharepoint and Microsoft Infopath

-- Designed and developed the Java-based SERC Asset Management Utility (SAMU). The SAMU converted database files into XML files. The Collections API, Façade Design Pattern, naming conventions, packaging standards, Java Archive Utility and Java Documentation were all used extensively.

-- Performing (Java) software development, maintenance, porting and prototyping as well as engineering analysis, phone support, lab support, documentation support and test support activities for MPS and RAPPI.

## **Sunhillo Corporation, Berlin, NJ**

*Member of the Technical Staff (March 2004 - September 2006)*

-- Performed software development, software maintenance, software porting, software prototyping, engineering analysis, phone support, lab support, documentation support and test support activities for ECG and ERAM.

-- Developed and/or maintained the following software products for ECG sites and FAA WJHTC: 'ECG Adaptation Management Application', 'Password Utility', 'Utility for Maintaining Archives', 'Listings Utility', 'Launch SDS Utility', 'X Windows Site Adaptation Utility', 'SAR Archive Utility', 'VTSui', 'usertool', and MWS/IP/SMC/SWS systems.

-- Ported the 'User Administration Tool' from a console-based application to a GUI based application, including the development of a 'UAT Password Encryption Utility'.

-- Developed the following in-house test tools: 'Physical SLOC Code Line Counter', 'X Watcher Utility', 'File Distribution Utility', and 'Lab Broadcast Utility'.

-- Developed several software prototypes using C, C++, Korn Shell, Tcl/Tk, and Netview on the Solaris platform.

-- Provided subsystem support for included DREC, WMSU and CCU.

## **Enroute Computer Solutions, Inc., Egg Harbor Township, NJ**

*Software/Test Engineer (August 1997-March 1998, June 1998- March 2004)*

-- Performed software, test, and technical support of NAS including designing, executing, and verification of scripts, scenarios, procedures and code for ATOP, CPDLC, ODAPS, EBUS, SDRR and HOST systems. Tools were developed using Korn Shell, C/C++, Qt/Motif, JOVIAL, BAL, and/or AIX. Tests included DSR background, baseline, workload tests, DYSIM, Long Term stability, settings and reconfigurations, Altimeter Settings, Aircraft Logon, Sessions, Termination, and Menu Text.

-- Developed the core elements of the RSE including the RSCC, RSCP and RATTLES. This work entailed many facets of systems development utilizing Linux, C, and TCL/TK.

-- Lead the development of several prototype systems including MTV developed with C/C++, Qt application framework and Redhat Linux. This effort involved integrating several open source applications into one seamless multimedia application.

-- Performed functional, GUI, and database development of the prototype GSGT. This prototype led to the success of the GSGT and SDRR projects.

### **Technical and Management Assistance, Egg Harbor Township, NJ**

*Software Engineer (March 1998 - June 1998)*

-- Conducted maintenance programming on the operational software support programs of the Flight Service System's Automated Weather Processors and Flight Service Data Processing System utilizing the TAL programming language on the TANDEM platform.

### **NYMA, Inc., Egg Harbor Township, NJ**

*Software/Test Engineer (January 1996-August 1997)*

-- Provided technical support of HOST under the ERSDS contract. Efforts included implementing JOVIAL/BAL programming changes to the Data Analysis and Reduction Tool software, conducting operational regression testing, NAS functional verification testing, writing SIM programs, and writing reports.

### **EDUCATION**

Education: Richard Stockton College of New Jersey, Pomona, NJ 08240  
Bachelor of Science, Information and Computer Sciences, August 1995  
Non-matriculated Graduate program, Prospective MBA, on-hold

### **AFFILIATIONS**

Founder and president of the Atlantic City Java User Group  
Jersey Shore Science Fair Judge  
Member of the Knights of Columbus  
Alumni of Alpha Chi Rho Fraternity