Kristi Johnsen [k](mailto:kristi_johnsen@yahoo.com)**[r](mailto:kristi_johnsen@yahoo.com)**[i](mailto:kristi_johnsen@yahoo.com)**[sti\_jo](mailto:kristi_johnsen@yahoo.com)**[hn](mailto:kristi_johnsen@yahoo.com)**[se](mailto:kristi_johnsen@yahoo.com)**[n](mailto:kristi_johnsen@yahoo.com)**[@ya](mailto:kristi_johnsen@yahoo.com)**[h](mailto:kristi_johnsen@yahoo.com)**[oo.com](mailto:kristi_johnsen@yahoo.com)**

**1113 York Ave, NY, 10065 Phone: (516) 521-9903**

**TECHNICAL EXPERTISE**

**Programming Languages:** C++, C, Java

**Database Tools:** Data Studio 4.1.0.1 Client, AQT 9.1.2 (64 bit) – Advanced Query Tool

**Databases / Technologies:** DB2, SQL, JDBC

**Operating Systems:** Windows, VxWorks 6.3, VxWorks 5.5, Linux, UNIX (Sun Solaris) Platform: Sun SPARC

**Development Tools:** Eclipse Java EE IDE for Web Developers vMars.1 Release (4.5.1), Visual Studio 2010 Professional 10.0, Wind River Workbench 2.5, Wind River Tornado 2.2, Hummingbird Exceed 10.0

**Model Driven Development:** WhiteStar UML 5.4.8, IBM Rational Tau 4.8, Software thru Pictures (Stp)

**Testing Tools:** JUnit, Intel Inspector XE 2011 Memory Error Analysis / Detect Leaks, Purify, Pure Coverage, VectorCAST

**Version Tool:** SVN 1.8,IBM Rational Synergy 7.1, PVCS 7.5, CVS

**GUI Tools:** Adobe Flex Builder 3, Motif Toolkit:Builder Xcessory PRO 6.1.4

**Requirements Management Tool:** IBM Rational DOORS 9.3.0.3

**Issues Tracking Tool:** JIRA v6.3.15, IBM Rational Change

**Compiler:** GCC v3.4.4, Java 1.8

**Other:** some XML parsing using DOM parser

**PROFESSIONAL EXPERIENCE**

**Transamerica, Harrison, NY** September 2013 – Current

**Lead Program Analyst**

The company is re-architecting the application in Java to handle more data. Coded several classes in Java to: save DB2 and mainframe connections for reusability, execute stored procedures using JDBC; implemented the factory pattern to process different jobs that have been ordered that create actions associated with the particular job; a class to invoke third party software to generate PDF’s, and Postscript from an XML file.

Develop and support the existing application in C++ which is a multithreaded Windows application using Microsoft Visual Studio 2010 Professional 10.0 for the generation of quarterly and monthly financial statements for over 3 million participants. This software has a tight deadline of five business days after quarter begins to produce the statements. Advised fellow team members on detection and correction of memory leaks, memory errors, and multithreaded errors.

Provided 24/7 support for quarter end operational process of generating participant statements.

Create and deploy stored procedures when needed using Data Studio 4.1.0.1 Client.

Modified existing SQL statements to use parameter markers to improve efficiency to IBM DB2.

Designed classes using WhiteStar UML.

Some system enhancements are:

Modified the application to correct statements and only post online (no email or Postscript produced),

Added an Annual Web Statement to the product end to end; modifying the GUI using Adobe Flex Builder 3 and modified the backend to implement the new statement which is scheduled on a calendar year only. These statements are posting only statements to the participant website, and archived to the database,

Added the expense and gross ratios to the Employer and Employee detailed section of the statement.

**Telephonics Corporation, Farmingdale, NY** March 2002 – September 2013

**Principal Software Engineer**

Followed the entire waterfall life cycle for developing VxWorks RTOS (real-time operating system) multi-tasking systems.

Developed embedded primary and secondary IFF (identification, friend or foe) radar systems.

Primary and secondary radar software ran on a Power PC quad 32 bit processors. Threads communicated using interprocess communication techniques (IPC) such as: message queues, shared memory message queues, shared memory, interrupts, mutex semaphores, and sockets.

All software developed in Workbench or Tornado using a real time embedded operating system VxWorks.

Programmed software modules in C++ for navigational units such as H-764G, and LN-251 to align with a GPS antenna.

Designed, and coded C++ software to output real time tracker information in STANAG (Standardization Agreement NATO) 4607 format to a TCP socket.

Customized the vxWorks kernel to fit the projects needs. For example inclusion of: error status table, built-in- symbol table, shell banner.

Did development in accordance with DO-178B level C standards.

Did development in accordance with CMI level 3 standards.

Field experience: upgraded software on helicopters and fixed wing aircrafts, flight test on the P-3 Orion.

Experience working with the following disciples: hardware engineers, system engineering, quality engineering.

**Emagine Solutions (Subsidiary of Deutsche bank), New York, NY** December 2000 - January 2002

**Software Engineer**

Java development and implementation of the CORBA-based eCommerce application for secure XML transactions as part of the Identrus global B2B Infrastructure. Software required proficiencies for this project consisted of ORBIX 2000, DOM, Microsoft Visio, JBuilder 4, and CVS. Duties encompass middleware development of Java source code using JBuilder 4 on a UNIX platform (Sun Solaris 7). Server side programming using CORBA (ORBIX 2000) which included defining the interfaces, implementing multi-threaded interfaces, servers, and a Servant Locator for managing the persistent objects. Using Apache Xerces2, implemented a DOMParser to parse an XML log file to any depth. Implemented a parser to parse ValiCert’s Online Certificate Status Protocol (OCSP) Responder log file. Java source code is unit tested using JUnit test suite.

**Emagine Solutions (Subsidiary of Deutsche bank), Frankfurt, Germany** September 2000 – December 2000 **Software Engineer**

C++ development and implementation of a real-time stock quote system for Deutsche Bank UNIX platform (Sun Solaris). This project is an internal application used for Deutsche Bank and retrieves real time stock quotes for bank employees. Duties encompass middleware development of C++ source code that authorized and authenticated employees trying to use the application. Server side programming using CORBA (ORBIX Web), which included defining the interfaces, and implementing the interfaces.

Java source code is unit tested.

**Northrop Grumman, Orlando, FL** November 1998 – September 2000

**Software Engineer**

Developed C++ code on a Linux operating system using the spiral life cycle for a simulation system called WARSIM 2000 to support commander and staff training for battalion through echelon and above for the Army.

**CLEARANCE:** Secret security clearance – inactive

**TRAINING**: SQL Programming Language Introduction Class at Learning Tree: May 2014

Navy Water Survival Training Class (Non-AC Class 2 N4/NP4): December 2008

**EDUCATION**

**Bachelor of Science in Computer Science** - *University Of Central Florida, Orlando, FL - 1999*