SCOTT J. MAYER
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PROFESSIONAL SUMMARY:

Current Position: Senior Staff Software Engineer/ SAIC
Extensive technical development and management experience analyzing and developing Software systems (JTRS Waveforms – SRW, WNW, MUOS VLF Waveforms) for both commercial applications and the Department of Defense. Functional expertise encompasses systems and "**C/C++/C#/JAVA**".
Development of SRW/WNW/MUOS waveforms into Software defined radio platforms.
Development of VLF waveforms for customer needs.
Extensive Linux/Unix development efforts, with in-depth experience with Fiber Channel devices.
Porting of the fiber channel devices and integration of the software.

EDUCATION:

MS Software Engineering, National University, San Diego, CA 1990
BS Management Info. Systems, Southern New Hampshire University, Manchester, NH 1986
UCSD Extension, Software Engineering enhancement courses, continuous

SOFTWARE / HARDWARE:

UNIX (HP, SUN, IBM), LINUX, SYBASE, ORACLE, C/C++/J++, JAVA, ADA
CASE TOOLS, JAVA/HTML, PERL, CGI, and Object-Oriented Design & Methodologies.
SQL, CLIENT SERVER, CORBA, MS MFC, Windows-XP, VISTA, SQL SERVER, X-WINDOWS/MOTIF FORTRAN, SQL Programming, PERL-CGI, Visual Café,
UML, WITHCLASS (SE OOA DESIGN KIT), JDK 1.2+, JBUILDER, SWING, GREEN HILLS Integrity, QNX, Rational Rose, HP, SUN, IBM, DEC, PC, Macintosh, NT, Clear Case,
Visual Studios 2005/2008,2019 SVN

CLEARANCES:

TOP SECRET SBI / SECRET (Both Active)

INDUSTRY EXPERIENCE:

Apr 2019 – Present

SAIC – Mission Systems
Senior Staff Software Engineer

Development of VLF waveforms for customer systems. Utilizing C/C++ doing conversions from both ADA/Assembler to current architectures and devices.

Sept 2013 – Apr 2019

Northrup-Grumman (Aeronautical System)
Embedded Software Engineer V

Triton-AMMS
Developer and architect for AMMS mission systems embedded OS and applications. Developer of code modules and design for mission playback extension system, utilizing C++, C#, in both a LINUX and Windows. Utilizing Visual Studios and Eclipse for each perspective system. Waveform development and maintenance for each addition into each partition processor incorporated in the airframe chassis. WTS (problem reports and resolutions) assignments to fix and/or update the AMMS system and associated waveforms.

JENM 3.X (Joint Enterprise Network Manager)
Develop software for the network management system to control and configure JTRS waveforms. Development is in JAVA 7 /8 and C++ for JENM 3.X. Project uses the AGILE process for the software development effort. Eclipse, MAVEN, Windows, Linux, ECLIPSE,

- **Lead Engineer for Provisioning client and server products – C++ low level interface porting from legacy systems to a complete JAVA solution. Wrapper code design and development to utilize the C++ existing services.**
- **Port and implementation of MERCURY services into JENM.**
- **Design and code Network Element Control for multiple radio nets.**
- **Design and code the message signing and compression utilities needed for OTAM and provisioning services.**

MUOS (JTRS _ WAVEFORM):
Develop and port MUOS (Multiuser Objective System) IR waveform into Northrup-Grumman Radio Systems. Porting is based on Green Hills Integrity OS and development environment. All work is done with C++/CORBA (ORBExpress) on embedded Power PC platform, with

dual assignments to port to ARM based processors. Develop, Design and Code missing adapters so MUOS runs effectively on MG Freedom Radios. Port was completed in 10 Weeks.

March 2013 – Sept 2013 **TASC / Northrup-Grumman (Contractor)**
Principle Software Engineer - Embedded

MUOS:
Develop and port MUOS (Multiuser Objective System) IR waveform into Northrup-Grumman Radio Systems (Freedom 450) . Porting is based on Green Hills Integrity OS and development environment. All work is done with C++/CORBA (ORBExpress) on embedded Power PC platform, with dual assignments to port to ARM based processors. Develop, Design and Code missing adapters so MUOS runs effectively on MG Freedom Radios.

March 2008 – March 2013 **Harris RF Communications**
Software Engineer IV

Development of Embedded Software for Software Defined Radio (SDR) products. Integration of several JTRS (Joint Tactical Radio Systems), radio waveforms including Soldier Radio Waveform (SRW) and Wideband Networking Waveform (WNW) into Harris 117G Man-pack Radios. Be in lead engineer role in various projects. Experienced in the full lifecycle software development cycle. From requirements to product release and support utilizing UML and Object Oriented methodology. Code control utilizing SVN. IDE's using Slick Edit, Eclipse, Code Write and Visual Studios.

- Designed and implemented Situational Awareness (SA) service in Harris Falcon3 platform. Involved interfaces with GPS devices, device configurations, and network packaging.
- QNX (embedded LINUX) development / Development utilizing LINUX with loadable modules
- Led the design & implementation of Human-Machine-Interface (HMI) and Network Detection Modules. (AD-HOC networking).
- Developed QNX device drivers for wideband handheld radio host communications.
- Experienced in developing embedded software running on ARM processors.
- Integrated OSI networking protocols and SNMP, into SRW waveform.
- Developed and applied test documents to SRW product release.
- Utilized DOORS to document and manage requirement
- Conducted design and code review
- Support customer review, on-site integration, and demo

Project: SRW (Soldier Ready Waveform)
Author, Develop and implement SCA standard waveform port to Harris platforms in Support of customers with ongoing mission requirements. All development in C/C++, CORBA, QNX RTOS environment. Ported versions SRW 0.5 – 1.1.1. Ground Station UGS implementation with SRW Waveform.

Project: WNW (Wideband Networking Waveform)
Author, Develop and implement SCA standard waveform port to Harris platforms in Support of customers with ongoing mission requirements. All development in C/C++, CORBA, QNX RTOS environment. Ported versions WNW 1.0.1.

June 2005 – July 2012 **D4Networks Inc.**
Principle Software Engineer

- **Developed and implemented DVM (Data Value Modeling Scheme) for online net worth value of real estate.**
- **Net 4.0 implementation of WEB based solution utilizing C#.**
- **Large data real time processing system development for large scale portfolio analysis**

Design and built all models and online software systems.
C++.NET, ASP.NET 2.0, C#, distributed WEB applications.
Production RELAR – www.relar.com

June 2006 – March 2008 **ISL-Information Systems Laboratories**
Senior Software Engineer

Project: FFTAS - BARRA

Designed, authored, wrote Barra Control System for processing multiple sensor signals.
Turn the data into usable signal files for display on FTAS (Fast Tracking Analysis System).

Completed project within a 90 day development window. System is a Windows distributed application utilizing multithreaded control software and parsing UDP Sockets and messages. C++, MFC, WINDOWS XP, Visual Studios 2005/2008

Project: GFTAS – Digital Tape Facility

Designed, authored, wrote Digital Tape Facility. This software utilized interfacing two fiber channel interface boards from a fiber channel Tape drive into the main collection system. System has a Windows interfacing capability and utilized UDP sockets and multithreading.
Development was 10 months in duration. System integrated into FTAS (Fast Tracking Analysis System). C++, MFC, WINDOWS XP, Visual Studios

Project: EBOUY – Continuous

Wrote updated firmware for PIC Microprocessor Software to support sensors collecting atmospheric data from the buoys on board disk array SAN. Design and built intercept data processing systems. C++/LINUX to Windows XP / VISTA application to process the intercepted data

Sept 2001 - June 2006 **BAE Systems, San Diego, CA**
Engineering Specialist – Software (Embedded)

Project: Model 601
Software Integration and upgrades to a mature software system. Analyze and implement fixes from discrepancy reports from the customer. Design and Implement new software release changes into existing code base. Support field engineers in a level 2 support role at site, as needed.
C++/JAVA/CORBA/INFORMIX DBMS

Project: Model 505
Systems / Software engineer for the development of Calibration Control System. Authored the Concept of Operations for the Calibration subsystem, and used it as the major design document for the requirements and specifications as required by the customer and contract deliverables. Design and processes built to SEI Level IV compliance. Security Design and Co-ops. Built System utilizing C++/JAVA/CORBA/Sybase.

1999-2001 **Jaycor Networks Inc. (JNI) San Diego, CA**
Senior Software Engineer

Project: SNIA HBA Interface Library
Author / Designer/ Developer of JNI SNIA (Storage Networking Interface Association) Library. Build Library for version 1.0.0 of the SNIA standard, with upgrades in process to version 2.0 of the SNIA standard. Developed Packaging and delivery code for each operating system. SNIA libraries developed for Solaris, Windows NT, Windows 2000, AIX, HP, and LINUX.

Project: EzFibre - SAN management software
Develop management layer software to control HBA boards and configure SAN network using this Tool, which interfaces to board drivers. Software is a 3-tier system utilizing JAVA/CORBA/C++ with an OODB Pointbase as the database selected to drive the data storage and reporting. Ported current release to run on HPUX, NT, and AIX. Software currently supports all SOLARIS based Platforms.

1995 - 1999 **Applied Digital Access (ADA) Inc. San Diego, CA**
Senior Software Engineer

Project: Network Embedded Protocol Analyzer (NEPA) Toolkit
Research, design and implementation of JAVA/CORBA applications imbedding protocol and data analysis functions to an applet and server configuration.
Commercial release of finished software product 1998. Developed interfaces and IDL configurations to support remote applet to server services.
Delivered release 1.0 January 1999. Integration of software into existing test suite for release 1.5 June 1999, Unix/PC integration. 100% Java portability.
Cross platform development to J++/SQL SERVER on NT. Interfaces with SNMP to the application.