**Senior Software Engineer**

Experience: **09/2008 – Present BAE Systems** /Intelligence, Surveillance, & Reconnaissance

**Manassas, Virginia**

* Designed, integrated, tested, and debugged flight VxWorks embedded software bootloader and operational kernel on company program that received Chairman’s Bronze Award. (C, C++, ClearCase)
* Developer on software team that produced (delivered 2 months ahead of schedule and $200K under budget) an extensive platform-independent message middleware framework, designed to send and receive messages over proprietary interface connecting processor cores to board components in a black-box environment. (C, C++, RCS)
* Worked internal research and development modifications for a next generation single board computer, implementing full DDR testing and u-boot capabilities. (C, C++, RCS)
* Wrote microcode interface components for an analog mixed signal ASIC, served as a project lead, mentored an intern working the same program. (C, C++, RCS)
* Upgraded test radiation board software to communicate with SERDES test chip and FPGA registers. (C++)
* Added soft-reset capability to flight SUROM. (Assembly language, C)
* Wrote internal application to parse and flatten SPICE netlists, then calculate circuit leakage using a customer proprietary executable macro. (C#)
* Architected web-based Parametric Reports system that runs nightly jobs to analyze parametric test data and calculate normalized values using best-fit equations to show data trends. (ASP, VBScript, Javascript, AJAX, SQL, Subversion)
* Developed, maintained front and back-end graphical database-driven web applets/interfaces, adding asynchronous script functionality. (Java, ASP, jQuery, VBScript, SQL, MySQL, Subversion)
* Designed and implemented scripts to interpret and analyze CSV and BMP data to support our former in-house wafer production and testing line. (Perl)
* Server administrator across multiple systems (Red Hat Linux, Microsoft Server 2005, IIS, SQL Enterprise Manager, etc.)
* Developer on in-house database aggregate application, wrote user-requested reports to query and analyze data from multiple sources. (SQL, T-SQL, Oracle, XML, Delphi)
* Women in Technology Lead Mentor: Program that brings in local female high school juniors / seniors and introduces them to the engineering sciences and profession over the course of twelve weeks.

**05/2007 - 08/2007 BAE Systems** /Electronics, Intelligence, & Support

**05/2006 - 08/2006**  **Manassas, Virginia**

**05/2005 - 08/2005**

* Summer Intern – Engineering Co/op

Official evaluation Exit Performance Report (all three years):

Excellent (highest rating).

Education: **12/2011 University of New Hampshire** /College of Engineering and Physical Science

**Durham, New Hampshire**

Two graduate courses completed, toward

Graduate Certificate, Software Systems Engineering

(Courses: Software Architecture, Software Testing)

**05/2008 University of Virginia** /School of Engineering and Applied Science

**Charlottesville, Virginia**

Eight semesters college coursework completed

**B.S., Computer Science**, Minor – Studio Art

Skills: C++, C#, C, Java

Python, PHP, JavaScript

XHTML, CSS, SQL, MySQL, T-SQL, Web Development

VxWorks, Embedded BSPs

Git, Subversion, ClearCase, RCS

MS Visual Studio 2003-2012, Eclipse, WindRiver Workbench 3.x

Familiarity with Integrity, Perl, Bash, Linux, Android Studio

Additional **06/2004 Received 4-Year Harold Pope Scholarship**

Information: To pursue a Bachelor of Science degree in the University of Virginia engineering program, while maintaining a 3.0 average throughout attendance.

**08/2013 Business Area Award**

BAE Message Middleware (BMM) team development award, for delivering finished product months ahead of schedule and $200K under budget.

**01/2014 Chairman’s Bronze Award**

Digital Electronic Warfare Systems (DEWS) team total performance award: 249 Bronze teams selected from 3,000 company programs across the organization submitted for consideration.

**03/2015 IMPACT Award**

Recognizing employees who are making a difference, in supporting the Women in Technology Program, making an impact on young women considering a technology field.

**Security Clearance:** Current DoD Secret Clearance