

TIFFANY TRUSTY

SOFTWARE FREELANCER

EXPERTISE

SOFTWARE
ARCHITECT

PRODUCT
SECURITY

WEB DESIGN

ANDROID
DEVELOPMENT

SKILLS

C, C++, VB, .NET, C#, Java,
JavaScript, HTML, CSS, SQLite,
JSON, CMS, DNN, WordPress,
Hootsuite, SEO, Eclipse, Visual
Studio, Android, Linux, MS Office,
Bluetooth Qualification, FIPS,
Nessus, STIGs, Six Sigma Yellow Belt

EDUCATION

MASTER OF SCIENCE

2007 - Engineering Management
Rose-Hulman Institute of Technology

BACHELOR OF SCIENCE

1997 - Electrical Engineering
Rose-Hulman Institute of Technology

CONTACT

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PROFILE

I have a passion for technology that makes an impact! With 18 years of experience I am a seasoned software architect. My love of all things tech mixed with my entrepreneurial spark is what makes me different. I covet opportunities to summon all of my past experiences and current expertise to help a new business or market succeed!

EXPERIENCE

SOFTWARE MANAGER

REDUX / 2013 - Present

The REDUX machine dries wet electronics. REDUX brought me on as a freelancer to manage all of the related software. I programmed a complex Android application with a retail UI that communicated with a microcontroller on one end and a custom cloud server on the other. I managed and advised the teams that developed the microcontroller code and the custom server applications.

SENIOR SOFTWARE ARCHITECT INFORMATION ASSURANCE OFFICER

Motorola Solutions / 1997 - 2013

The senior software architect team consisted of only a handful of the most senior engineers that interfaced with the business team to estimate new features and the developers to write first pass requirements and architecture and act as technical advisors throughout feature development.

As the Information Assurance Officer, I architected and executed a comprehensive solution for the product to acquire "Authority To Operate" certification under the DoD guidelines.

WEB DESIGN FREELANCER

Trusty WebDev / 2007 - Present

Portfolio available online at TrustyApplications.com.

TIFFANY TRUSTY

SKILL DETAIL – SOFTWARE ARCHITECT

As a Senior Software Architect for Motorola, I lead the first pass research, estimation and definition of extremely complex features. I was responsible for quickly becoming a Subject Matter Expert in new areas so that I could accurately estimate the resources needed to produce a new software feature. I would then produce a high level architecture document, decomposing the feature into major software components and interactions. Next, I would produce software requirements and design documents. Each step required collaboration across the worldwide organization and formal reviews by the appropriate teams: Business, Sales, Project Management, Development, Quality, Subject Matter Experts, Factory Representatives, and Customer Support. After my work went to the programmers for implementation, I remained a technical advisor and reviewer throughout the feature development, test, release and maintenance lifecycle.

Specific Project - [*Mission Critical Bluetooth*](#): I helped integrate highly secure Bluetooth support into our product line. I worked with the Bluetooth SIG to fully understand their FIPS roadmap and helped the business & architects understand the tradeoffs of being first to market with a brew-your-own FIPS certifiable solution or waiting for the Bluetooth SIG to release a certified standard. I then championed the effort to obtain Bluetooth Qualification for the product line, working with a BQE and BQTF.

Specific Project – [*Information Assurance*](#): I wrote my Master's Thesis on developing a Product Security certification strategy for the high-end two-way radio product lines. I became a SME on the DoD Information Assurance Standards and deployed a certification plan that spanned 3 years and touched every facet of the product's organization.

Specific Skills - Requirements Gathering, Technical Documentation, Technical Documentation and Coding Review Processes, Requirements Management Tools, Configuration Management Tools, Defect Management Tools, Six Sigma Yellow Belt, Design Patterns, Agile, Waterfall, FIPS, Nessus, STIGs, DISA, DIACAP, CJIS, FISMA, NIST

SKILL DETAIL – SOFTWARE DEVELOPER

As a Software Developer for Motorola, I coded in a variety of languages. As the founder of Six Sigma, Motorola instilled quality and reliability into every step of software development. For over a decade, I implemented, tested, deployed and maintained several proprietary automated test tools and field maintenance tools for Motorola's Public Safety Telecommunications Sector. I often managed teams of developers around the world for large projects. As a senior developer, I was placed in many leadership roles throughout my 16 year career with Motorola: Process Lead, Information Assurance Officer, Innovation Board Member, and Bluetooth Qualification SME.

Specific Project – Infrastructure Emulator: With a live telecom site, it was difficult for test engineers to achieve a controlled environment in which to test difficult to reproduce scenarios. I developed a suite of emulators that boiled a live site (which consisted of dozens of devices that handled public safety communications for a whole city) down to a PC app and one desktop device that had a communications radius of ~10 feet. This highly complex suite of emulators innovated product testing capabilities for over a decade.

As a Software Developer & Manager for REDUX, I spent 18 months developing a complex, custom Java based Android app. The REDUX app has a retail quality UI that interfaced locally with a TI microcontroller to control the drying machine. The app also interfaced with a custom server to report usage and process stats back to the organization for invoicing, upgrades and maintenance. This app can be seen live at any Verizon TCC Store today and more details about the product can be found at [*REDUX.com*](#).

As a Freelance Web Designer for over 8 years, I have designed, implemented, tested, and maintained websites for a variety of industries. Although I am capable of creating a website from basic code, I often leverage CMS Frameworks like DotNetNuke or WordPress to achieve the richest functionality in the least amount of time. A full portfolio of live websites can be found at [*TrustyApplications.com*](#).

Specific Skills – C, C++, C#, VB, VB.NET, Java, JavaScript, Android, Eclipse, Visual Studio, HTML, CSS, SQLite, MySQL Workbench, JSON, CMS, DotNetNuke, WordPress, Hootsuite, SEO, eCommerce, Blogs, Linux, MS Office, Clearcase, Git