

Timothy Cortesi

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PROFILE

Embedded Development:

As an Embedded Software Engineer at Lockheed Martin, I worked on several avionics based embedded software platforms including the D0178-B Operational Flight Program (OFP) for the VH-71 Presidential Helicopter cockpit Integrated Display Unit (IDU), the OFP on the MH-60R Control Display Unit (CDU), software diagnostics on GSTAR (GPS anti jamming solution), and several other platforms. I have a great deal of experience in both application and diagnostics embedded software development using tools such as SCADE, VAPS/VAPSXT, and ANSI C as well as leadership experience developing Software Requirements Specifications and Software Verification/Testing.

Web Development:

I have a great deal of experience building web based applications and utilities using the "LAMP" stack. I am the founder and developer of www.steepleconnect.com, a social networking/church website hybrid service for churches to easily communicate and share information on the web. I am well versed in the creation and maintenance of complex MySQL databases, Linux (specifically RHEL/CentOS), Apache, as well as php and python. I am well versed in AJAX development techniques using javascript/JQuery.

EXPERIENCE

SteepleConnect – Founder and Developer; www.steepleconnect.com – July '10 – Date

Design, architect, and coding of SteepleConnect back end APIs, relational database design, facebook/google integration, advanced analytics tracking, and general application flow. Implementation using CentOS Linux, apache, MySQL, PHP, Javascript (jQuery), CSS and HTML. Additional roles include customer sales and contracts.

Sonostics (Startup) – Software Architect; Binghamton, NY www.sonostics.com – February '11 – Date

In this startup, I architected and built the flagship MyoWave application software using a combination of embedded C, C# (.NET), HTML, and Javascript (jQuery). This unique hybrid of embedded software fused with Web Application programming in a custom .NET browser allowed for the creation of a very fast, very portable application. This was done with a small development team of two engineers.

Lockheed Martin MS2 – Software Engineer; Owego, NY www.lmco.com – July '07 – January '11

I wrote/tested software on many embedded platforms including the VH-71 OFP display, MH-60R CDU, V22 display demo, MH-60R Anti-Mine-Countermeasures (AMCM) demo, GSTAR GPS Anti Jamming solution, and several other programs of a secret nature. I lead several Software Verification and Software Requirements teams in addition to my software development efforts. The primary languages used were C, SCADE, and VAPS, along with the occasional C# and Java for desktop based support applications.

eSolveSolutions – Software Consultant; Albany, NY www.esolvesolutions.com – December '06 – Date

I perform custom web application development as well as ActiveCollab (www.activecollab.com) module development for eSolve and its clients. Development in PHP/HTML/Javascript (jQuery)/MySQL

MapInfo – Intern; Troy, NY www.mapinfo.com— Summer '05, December '05, Summer '06

At MapInfo, I provided software verification and test support for a .NET rewrite of map based marketing analysis tool "Mapinfo Professional". This included developing a number of automated GUI tests in C# which ran nightly against the latest application build.

EDUCATION

SUNY Potsdam, Potsdam NY

GPA: 3.25

Clarkson University, Potsdam NY

Major: Computer Science

Minors: Information Technology, Business Administration

Hudson Valley Community College, Troy NY

SKILLS

Languages: ANSI C, C++, C#, DXL (DOORS scripting language), Java, javascript/JQuery, python, perl, php, prolog, SCADE, scheme, VAPS, Visual Basic (.NET)

Databases: MySQL, Oracle, ANSI SQL

OS Familiarity: Solaris, Linux (RHEL/CentOS, ubuntu, fedora, etc...), Windows, Mac OSX, VxWorks, Xilkernel

Protocols: ARINC 739 (CDU Protocol), tcp/udp/ip/Ethernet

Cryptography: Great deal of experience with various cryptographic algorithms

Web Development, Desktop Development, and Embedded Development