WAYNE J. DUPONT

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Objective

*Goal-oriented, dynamic software developer with over 20 years’ experience seeking position in which I can maximize my knowledge of programming languages, technical troubleshooting, and project management*

Summary of Qualifications

* Proficient developer of Windows Device Driver and Applications
* Fluent in numerous programming languages, including C, C++, and Assembly Language
* Experience in Embedded System Software development, including Blackfin and Linux
* Strong hardware and software debugging and problem solving skills
* Excellent management skills with previous experience as Project Lead

Professional Experience

Meteorix, Boston, MA November 2013 – December 2013

Senior Integration Engineer

* Integrate third party payroll and HR applications with Workday’s Human Capital Management System
* Massage user data in XML format with XSLT and XPath
* Import and export user data using Workday Restful API’s

iMedia Solutions, South Dartmouth, MA January 2013 – August 2013

***Senior Engineering Manager/Developer***

* Applied Agile development and testing methodology to the supervision of all projects
* Acted as client-company liaison; responsible for regularly updating clients on order project status
* Debugged and coded server side and client WEB applications using PHP, MySQL, HTML, CSS, JQuery, JavaScript and CodeIgniter
* Installed LAMP stack on development and deployment systems
* All development and testing was completed in a Linux and/or Windows environment
* Testing, staging and deployment was completed on Amazon AWS cloud instances
* Created server side API to access MySQL database using Node.js with Node-MySQL and Express.js.

Infinite Computer Solutions, Contracting at Verizon Technology Labs, Waltham, MA July 2012 – January 2013

***Senior Software Engineer/Architect***

* Wrote DirectX/DirectShow filters for the analysis and quantification of media quality as represented by a variety of media devices; used VB.Net C#, C++, FFMpeg, FFProbe and MediaLooks SDK, WireShark
* Captured video frames, closed captioned text, and audio for subsequent analysis
* Configured HP 460c Blade Servers with VMWare VSphere ESXi to deploy Video Analysis Application
* Installed and configured Windows Server 2008 R2 and MS SQL Server on target servers.
* Wrote Virtual Audio Device Driver to be used in conjunction with Video Analysis Application

iMedia Solutions, South Dartmouth, MA March 2011 – July 2012

***Senior Software Engineer***

* Developed and debugged custom-designed web based document management system and UI workflow management and dashboards
* Installed LAMP stack on development and deployment systems
* Performed client/server side development using HTML, JavaScript, JQuery, AJAX, JSON, PHP and MySQL

Videology, Inc., Greenville, RI December 2010 – April 2011

***Senior Software Engineer/Contractor***

* Developed DVR configuration WEB pages for embedded Linux IP video cameras using HTML, CSS, AJAX, CGI, C, C++ and JavaScript
* Debugged TCP/IP packets using WireShark
* These WEB pages controlled video parameters and displayed streaming video from an IP camera using the VLC WEB page plug-in
* Configuration data for camera was derived from XML format
* XSLT was used to parse XML data; MS C++ XML classes were utilized to develop XML parsing application

Analog Devices, Norwood, MA April 1997 – May 2010

***Senior Software Engineer***

*DSP Tools Department* (2007 – 2010)

* Designed and developed Blackfin DSP products to support USB 1.0 and 2.0; used C embedded USB device and host mode class driver
* Utilized C and C++ to develop USB class drivers for mass storage and audio devices to support Analog Devices Blackfin USB stack
* Worked with the VisualDSP++ VDK real-time kernel

*Video Tools Group* (2006 – 2007)

* Worked with a team in C/C++ to develop video settings and control applications for an embedded Linux ADSL set top video processor for the consumer division. Communication with this set top box via TCP/IP using network sockets.

Analog Devices (continued)

*Integrated Audio Group* (1997 – 2006)

* Designed and developed Windows audio device drivers, VXD, WDM, Windows NT with Windows DirectX
* Implemented audio device drivers to pass Microsoft Hardware Quality Lab (WHQL) audio compatibility tests
* Developed a debugging application using Visual Basic, C and C++; application read and wrote audio codec registers and was sent to customers as part of release.
* Custom debugging application included additional DLL and custom device driver to facilitate hardware access
* Developed custom audio device drivers for use on Intel, Dell, Gateway, HP, Compaq, and IBM platforms

SDL Corporation, Taunton, MA February 1997 – April 1997

***Senior Software Engineer***

* Developed Windows NT-based DSL Network interface device driver (NDIS) for a DSL set top box; client was a major Internet provider.

Keithley-Metrabyte Corporation, Taunton, MA 1987 – 1997

***Software Engineer***

* Developed software for data acquisition hardware systems applications using C, C++ and Fortran
* Utilized Visual Basic and C in the development of a VisualDAS product
* VisualDAS consisted of custom controls, applications, and DLLs, and was used to improve data acquisition applications using VB in Windows
* Awarded the Quality Service, Innovation, and Integrity Award for VisualDAS project
* All applications were developed for the DOS, Linux/UNIX and Windows platforms

Technical Proficiency

Programming Languages and Tools: C, C++, Microsoft Foundation Classes, Windows Software Development Kit (SDK), Windows Device Driver Kit (DDK/WDK), Visual Basic, Assembly Language, JavaScript, HTML, CSS, PHP, MySQL, VBScript, VB.Net, Java SE JDK, XML, XSLT, XMLHTTP, TeraTerm,WinSCP, VLC, Embedded VLC in HTML, AJAX, Bugzilla, SVN, CVS, Source Safe, Makefiles, VirtualBox, InstallShield, VMWare Fusion, Bash Shell Scripts, DirectX, DirectShow, C#, Apache, Nginx, Tomcat, JSP, CodeIgniter, Vim, JQuery, Tmux, Nodejs, Nodejs for MySQL, Forever CLI to run Node Servers, Chrome Debug Console, Oracle SQL/Plus, Qracle SQL Developer, Oracle PL/SQL, Oracle SQL, WireShark, TCP/IP

Operating Systems: Windows (NT, 95, 98, 2000, Me, XP, Vista, and 7), Mac OSX, Linux, Amazon AWS, Windows Server 2003 R2, Windows Server 2008 R2, VMWare VSphere

Software Applications: Microsoft Word for Windows, Microsoft Excel, Microsoft PowerPoint, Numega Soft-Ice, WinDbg, VisualDSP++ Embedded Software Development Environment, Visual Studio, VI, Final Cut Pro, Photo Shop, Dreamweaver CS4, Xcode, Interface Builder, Eclipse, NetBeans, OpenOffice.org, Git version control, Nano, Jira, Harvest, Zen Desk, VI, SQLWorkbench, PHPMyAdmin, FileZilla

Hardware: PC systems (desktop and laptop), Macintosh (desktop and laptop), BlackFin DSP EZKIT development and evaluation boards, wired and wireless networks using various routers, Apple AirPort Extreme and Express wireless devices, In-Circuit-Emulators, Audio Codecs, ICH Chipsets, DMA Controllers

Education and Mentorship

Bristol Community College, Fall River, MA

Associate’s Degree in Science, Degree in Computer Programming

Courses in HTML, CSS, JavaScript, Java , PHP, XML, [vb.net](http://vb.net), [ASP.net](http://ASP.net), MySQL, Oracle SQL, Bash Scripting, Windows Security

Bristol Community College, Fall River, MA September 2010 – 2013

*Supplemental Instructor, Tutor and Mentor*

* Commonwealth Alliance for Information Technology (CAITE) Student Study Group Leader
* Worked with beginning and advanced CIS students, covering C++, Java, JavaScript, HTML, CSS, PHP, VB Script, [VB.net](http://vb.net), and MySQL

Certifications

Tutor Training Certification Level 1 - CRLA International Tutor Training Program Certification 2012

Computer Information Systems: Computer Programming 2011

Java Programmer 2010

WDM Device Driver Development, *Walter Oney Software, Boston, MA* 1997

Formal Software Specification and Implementation, *University of Massachusetts, Dartmouth, MA* 1996

Programming in C/C++ and Advanced C/C++, *Northeastern University, Foxboro, MA* 1991

Programming with the Windows SDK and DDK, *Microsoft University, Seattle, WA* 1990

Computer Maintenance Certificate 1981

Basic Electronics Certificate, *Rhode Island School of Electronics, Providence, RI* 1980