

Don Metzler

TITLE: President & Chief Software Engineer, Barefoot Productions, Inc.
Expert Desktop & Mobile Application Software Architect / Engineer

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SUMMARY: Expert software engineer/architect with 23+ years experience designing desktop and mobile software applications, video processing and imaging applications, ActiveX and custom controls, web browser plug-ins and toolbars, Anti-Virus and Anti-Spam, client-server architectures, GIS/GPS mapping applications, desktop utility software, network utilities, photo sharing, games, screen savers, and dynamic user interfaces.

Platforms: iOS/iPhone/iPod/iPad, Windows, OS X

Languages: Obj-C, C, C++, MFC/ATL/STL, C#, Visual BASIC, Java, Javascript, Win32 SDK, Delphi

Databases: MySQL, SQLite, Microsoft Access, Microsoft SQL Server

Technologies: COM, ActiveX, TCP, HTTP, FTP, SMTP, SOAP, sockets, multi-threading, XML, HTML, game development, video and imaging applications, Direct 3D, DirectShow, OpenGL, GDI+, NT services, and system development, GIS/GPS mapping, Anti-Virus & Anti-Spam, client-server architectures, GUI custom controls, multi-language applications, Windows sidebar widgets.

Software: Microsoft Office, Visual Studio, Xcode, InstallShield, Inno Setup, Eclipse IDE, VMWare, Subversion, Perforce, SourceSafe, Jira.

EXPERIENCE:

07/2009 – Current	Webroot Software, Inc.	Boulder, CO
Senior Software Engineer / Consultant		
Maintenance development of core software products: Spy Sweeper, Window Washer, Enterprise Desktop. Created an installation diagnostic tool for assisting support with resolving customer installation problems. Skills: C/C++/MFC/Delphi/Java/COM/ATL/InstallShield		
09/2010 – 12/2010	BoxBot	Denver, CO
Mobile Software Engineer / Consultant		
Created the RU4me iPhone app allowing a user to rate their personal dating experiences. App features many animation and transition effects. Skills: XCode/Objective-C/iPhone		
02/2009 – 07/2010	TapSlide / App Vineyard	Broomfield, CO
Mobile Software Engineer / Consultant		
Created several iPhone apps, including Skee.TV and Michael Goddard gallery. Created a back-end publishing tools to edit video and image content delivered to the iPhone apps. Skills: XCode/Objective-C/iPhone/QuickTime video		
08/2007 – 04/2008	Piria	Louisville, CO
Software Developer / Consultant		
Assisting with the development of WebEasy 7.5. Developed a new publishing wizard to help facilitate creating new user accounts, registering domain names and posting of web sites to servers. Updating software functionality and user interfaces for Windows Vista.		

Skills: C/C++/MFC/Win32/COM/ATL

09/2007 – 04/2008 Fortified Data Communications Denver, CO

Software Developer / Consultant

Development of ActiveX controls for a desktop GIS mapping application. Development of server COM components and extensions. Research

Skills: C/C++/MFC/C#/Win32/COM/ATL

09/2006 – 12/2008 Avanquest Software Denver, CO / Paris, France

Software Developer / Consultant

Continued development of the SendPhotos photo sharing application program after the buyout of the SendPhotos technologies from Novatix by Avanquest.

Skills: C/C++/Win32 application development/COM/Web Services/SOAP

04/2006 – 04/2010 Art & Logic Pasadena, CA

Software Engineer / Consultant

Working with Art & Logic to assist with Windows application development projects with their clients. Projects have included audio applications to stream data over the internet and various signal processing projects. Projects also included several Internet Explorer plugin toolbars and iPhone apps.

Skills: C/C++/Win32/multi-threading/OS X/XCode/Cocoa/Obj-C/iPhone

Client	Project	Description
Village Voice	LikeMe	Created an iPhone app to allow a user to identify and rate local businesses. www.likeme.net
Creative Labs	Vado	Created a Cocoa/OS X application to display and manage photos on a Creative Vado video camera. Photos could be uploaded to various online photo services. Multi-lingual application supported 10 language versions. Supported video formats included: QuickTime, wmv and Mpeg. Implemented programmatic QuickTime video editing. www.creative.com
Dixon Sports / TNT	NBA Selector	OS X application to allow searching/filtering of database results for logged NBA game video. Extensive use of QuickTime video technologies. Resulting video clips were exported to Final Cut Pro to create a video highlight reel that is used by TNT to broadcast NBA game highlights. www.dixonsports.com / www.tnt.tv
Intel	WiMAX Tutorial	Created a Flash player tutorial application to present information about Intel WiMAX technologies. Also developed both Vista Sidebar and Google Desktop gadgets to provide a customer the ability to configure and connect to WiMAX networks. www.intel.com
Ask.com	Your Search Field	Created an Internet Explorer search bar with custom skins that is able to use different target search engines. www.ask.com
Current Communications	Current Toolbar	Created an Internet Explorer toolbar with weather forecast, popup blocking, user sign-in, email support and other features for Current Communications customers. www.current.net
Disney	dRoomMac	Drag and drop web application for Mac OSX sharing

		Disney's intellectual property artwork with approved customers and artists. www.disney.com
Antares	Voice Thing	Windows application for voice altercation for gaming and other applications. http://www.antaresvox.com/index+.html
NPDGroup	PCMeter	Developed a device driver and application for monitoring data streamed over connected USB devices to prevent illegal copying of digital music files.
CCS	NetStar	Developed a new GUI for a Win32 audio player to receive and play incoming audio streams from hardware devices across the internet. Used for transferring of professional high-quality music data for professional audio applications in the film and music recording industries.

03/2006 – 12/2006 Ensign Power Systems Loveland, CO

Software Engineer

Developed a USB monitor utility application to shutdown a computer when the UPS power supply lost line power. This was a custom solution for custom power supplies developed by Ensign Power Systems for their clients.

Skills: C/C++/Win32

01/2006 PC Magazine New York, NY

Software Developer / Consultant

Created a game room scoreboard running on multiple monitors to be used for Unreal tournaments. Interfaced with a Java application that would pull statistics from an Unreal server and generate an XML statistics file. This file was used to provide data for the scoreboard system to be able to update in realtime for all players in the game room to be able to view.

Skills: C/C++/Win32 application development/XML

11/2005 – 07/2006 Monarch Little League Louisville/Superior, CO

Web Designer

Created a Joomla web site for the Monarch Little League association.

www.monarchlittleleague.org

Skills: HTML, Joomla

11/2005 – 12/2005 Fowler Software Design Denver, CO

Software Developer / Consultant

Developed an ActiveX control for a fingerprint scanner device so that it could be accessed through VB.NET and C# for a wireless tablet used for a dental office patient database system.

Skills: C/C++/Win32 ActiveX development/VB.NET/C#

10/2005 – 09/2006 Novatix / Send Photos Boulder, CO

Software Developer / Consultant

Working with a company to finalize their digital photo service in preparation for release. Working on configuration components to upload photos to a web server, searching drives for photo images and setting up a schedule system to perform unattended uploads. I took over three existing projects for the client-server components to enable the full photo backup system.

Skills: C/Win32 SDK/multithreaded programming/network protocols/Windows application development

3/2005 – 06/2006 Archive Tools Boulder, CO

Software Developer / Consultant

Assisting a database tool developer with sports and video logging application software. Assisting with debugging, testing and client installations. Created administrative tools for customer access

to database backup and restore procedures and functionality to enable simplified database table setup by customers. Providing user interface reviews and enhancements and adding multithreaded processing for initial application loading.
 xSkills: C/C++/UI design/multithreaded programming

5/2003 – Present

Ziff-Davis Media / PC Magazine

New York, NY

Software Developer / Project Lead / Consultant

Developing various utilities for the PC Magazine web site for subscription downloads, including DiscManager (CD/DVD cataloging tool), ContextMenu Plus (Windows shell extension), FileWarden (file encryption and security) and others TBD. Responsible for releasing a new utility every two months. Latest releases include PortSnoop (network monitoring), Startup Cop Pro (startup manager) and TaskPower (enhanced task manager). Worked to develop a commercial line of PC Magazine branded utility software for release in the fall of 2005. (I was responsible for development of 5 out of 11 utilities in the shrink-wrap package.)

Skills: C/C++/UI design/XML/system programming/client-server development/network protocols

Utility Project	Description
Task Power 3	Updated version to the task manager replacement. The new version allows viewing files locked by applications and processes, the ability to define start/stop profiles and CPU threshold monitoring of running processes.
Startup Cop Pro 3	An update to Startup Cop Pro, adding a new Vista-like user interface and more comprehensive startup items.
CoverUp	A security utility that can "lock" running applications from prying eyes. Locked application windows can display animated screen savers and be unlocked using a password.
TitleBar Add-Ons	A system hook extension to provide caption bar button functionality to running application windows for: hiding windows, changing transparent states and more.
PhotoViewer	An RSS-feed screen saver to display photo feed images and news feed data on your desktop.
Task Orchestrator	A task scheduler and file system monitor.
TaskPower	An extended task manager utility showing applications, processes, services, drivers and CPU/network usage.
Startup Cop Pro 2	An update to the successful Startup Cop Pro utility. This version was completely rewritten with a new user interface and new startup control features.
PortSnoop	Monitors running applications for network connections and displays details of these connections.
Holiday Countdown Clock	A fun holiday utility to countdown the days until Christmas (or any other holiday or event).
Holiday Email Card Generator	A wizard for generating email holiday cards in HTML using various holiday imagery.
Favorites Manager	A utility to manage Internet Explorer favorite links.
Shortcut Manager	A utility to manage shortcut links on your computer.
Printer Dashboard	A printer utility that can automatically change default printers based on availability and network connections.
File Warden 2	
File Warden	A file protection utility allowing encryption/decryption of files.
Twinkle Bulbs Holiday 2003 Edition	A custom version of Twinkle Bulbs, specifically for PC Magazine distribution.
Context+ Shell Menu	An extended shell menu for Windows Explorer which includes
Disc Manager	A utility application to categorize CD, DVD and program disc contents.

1/2000 - 9/2000 Middle Park Group, Inc. Lakewood, CO

Owner / Partner / Client Software Engineer

VP Partner /client software engineer to develop client web applications using Java and JSP. Developed a prototype for the DataCart data delivery system to provide XML data to users, initially in the oil and gas industry. Developed a prototype of a web-based ordering system for a local florist.

Skills: C/C++/HTML/XML/JavaScript/Java/network protocols/Apache/Linux/Java Server Pages/PHP

7/1999 - 12/2001 Panoptic Vision, Inc. Longmont, CO

Senior Software Engineer / Project Lead

Created the SLiVR application software for their digital panoramic camera. Using an MFC framework, the SLiVR software scanned an image from the camera, and would then apply filters, cropping and seaming algorithms to produce an immersive 3D image in QTVR or the IPIX format. Worked heavily with imaging technologies to process input from the digital camera and produce a full panoramic image.

Skills: C/C++/LeadTools/Win32SDK/multithreaded programming

6/1999 - 2/2000 Eclectic Radio Corporation Boulder, CO

Senior Software Engineer

Responsible for porting multithreaded C/C++ UNIX applications and utilities to Windows used for automatic scheduling and playback of songs on the Internet radio station. Developed multi-threaded scheduling software to run in real-time to handle the scheduling, notification and playback of streaming data across Internet protocols. Worked with Windows Media technologies from Microsoft.

5/1998 - 9/1998 IntraNext Systems, Inc. Englewood, CO

Expert Witness and Technical Consultant

Served as an expert witness and technical consultant in a software copyright infringement case. Reviewed several thousand lines of code, compared output, data structures and program coding structure to determine whether there was copyright infringement in C/Unix code used for call center software. Provided a deposition to the attorney representing the plaintiff. The case was settled out of court.

11/1997 - 12/1999 Mathemæsthetics, Inc. Boulder, CO

Software Engineer / Consultant

Ported the proprietary Unitaxon database from the Macintosh to Windows. Converted existing Mac object-oriented C code to Windows and wrote wrappers around the Mac toolbox calls to encapsulate the Win32 functions. Responsible for complete Windows application development, being provided with full Macintosh source code.

Skills: C/Win32 SDK/Mac Toolbox

11/1997 - 3/1998 CJ Computational Systems Louisville, CO

Software Engineer / Consultant

Developed ActiveX controls, libraries and MFC classes for a high-speed camera and imaging applications. Converted existing C libraries to C++ and added ActiveX control wrappers to make camera access possible from other application programs. Created various custom controls to monitor and display variances during image comparison.

Skills: C/C++/ActiveX

4/1997 - 5/2001 SeeMail, Inc. Boulder, CO

Software Engineer / Consultant / Project Lead

Created a new version of their SeeMail application to allow video and audio to be recorded and

automatically attached to an outgoing email. Used VFW and DirectX technologies to capture images from an attached video camera and produce the MAPI/SMTP email attachments. Created C++ classes to encapsulate various objects to make the code fully object-oriented.

Skills: C/C++/Win32 SDK/VFW/audio/video/MAPI

3/1997 - 8/2000 IHS Energy Group Denver, CO

Senior Software Engineer / Consultant

Developed various applications and utility programs using C/C++ to provide data visualization (charting, graphing) of petroleum industry well and production data. Developed several Java applets for the PetroNet 2.1 on-line system, which allowed oil and gas engineers to search and purchase relevant data relating to oil and gas wells. Java development using AWT and Swing classes for user interface. Created a system similar to the PointCast application to deliver data to the desktop, based on user selections.

Skills: C/C++/Java/RTF/HTML/XML/report engine

2/1997 - 2/1998 LiveWorld, Inc. Saratoga, CA

Software Engineer / Consultant

Developed chat server extensions to provide filtering of chat conversations and developed installers for the EZ-Talk 2 chat application. LiveWorld was the company behind the TalkCity live chat web applications. This has been one of the most successful applications of monitored chatrooms to date on the internet.

11/1996 - 7/2001 ZD Net / PC Magazine Boston, New York

Software Engineer / Author

Developed various Windows utilities and screen savers exclusively for ZDNet and the PC Magazine Extra CD-ROM. Developed the Monster Truck screen saver and the Cookie Master utility software, each of which was downloaded over a million times in the first two weeks they were available.

9/1996 - 11/1999 Cybex Computer Systems Huntsville, AL

Software Engineer / Consultant

Developed the Net 911 application software to remotely access a hung computer through a backdoor process. Assisted with the development of applications and components for KVM switching hardware.

1/1996 - 9/1996 Paramount Digital Entertainment Boulder, CO

Senior Software Engineer

Developed the client application software for the Gateway system. Worked with other developers to help provide means for Paramount to bring their content to the Internet. Worked with BlockBuster to establish their stores as local ISPs for internet access. Investigated and developed prototype applications to provide movie-on-demand services via broadband connections.

4/1996 - 11/1998 Anark Corporation Boulder, CO

Software Engineer / Consultant

Created a design specification and ported their Macintosh game title (Galapagos) to Windows. Created new custom controls in Windows to reproduce the interface features in the Macintosh version of the game software. Helped develop and port their 3D game engine from the Macintosh to use DirectX technologies.

4/1994 - 1/1996 Apple Electronic Media Lab Boulder, CO

Senior Software Engineer

Worked as a software engineer in Apple's Internet R&D lab in Boulder. Ported the eWorld on-line system client software to Windows. Researched and developed various on-line tools, utilities and

new technologies and ensure systems were working 24x7 for world-wide software demonstrations. Responsible for leading special research projects for the C-STAR team within Andersen Consulting, which involved collaborative software, visual interfaces, object-oriented programming projects and expert systems development. Served as a support engineer for remote marketing demos, trade shows and internal presentations to clients.

Assisted with new product research and development to determine how to better develop enhancements to existing collaboration software titles. Worked with the research group to evaluate and write reports on new technologies, hardware and software products.

4/1989 - 7/1990 Alpine Software / Lake
Shore Studios Chicago, IL

Owner / Software Developer

Developed a small music studio in Chicago and created various music software applications using the MIDI protocol to link electronic synthesizers. Created applications to handle the loading and saving of sound libraries to various synthesizers, algorithmic music generation and MIDI diagnostic software. Developed a MIDI hardware interface to convert music signals into light patterns.

5/1988 - 8/1988 Fermi National Accelerator
Laboratories Batavia, IL

Scientific Programmer / Lab Assistant

Developed application programs to test superconductor samples chilled in liquid helium. Wrote a Hewlett-Packard plotter device driver for use by graphing software on the IBM PC using the ASYST programming language. Wrote a file manager and charting program to sort, load and print reports and charts to print data obtained by the scientists during superconductor experiments. Served as a technical assistant with Leon Lederman, who went on to win the Nobel Prize in physics. Coordinated lab technicians and projects, providing a project results database for the Magnetometer and SuperConductor Group within the lab. Worked on computer network systems and protocols with CERN, which was the precursor to the WWW and internet protocols in the early 1990s.

8/1984-7/1990 Alpine Software Hinsdale, IL

Owner / Software Developer

I started my own software company that developed games and graphics applications released through the public domain markets through computer bulletin boards. Oversaw Atari and Apple users groups in the Chicago area, which included technical advice, programming examples and holding monthly meetings. Developed various games and interactive software titles including a horserace simulation, music player and text-to-speech engine. Many application and game programs appeared on freeware and public domain disks and bulletin board systems. Won various creative software design awards.

Previous jobs:

Lawn and Landscaping Technician, House Painter, Busboy, Construction Laborer, Shoe Salesman, Office Financial Assistant, Carpenter, Technical Support

EDUCATION:

Years	School / Location	Study / Degree
1987-1988	University of Wisconsin - Whitewater, Wisconsin	Bachelor of Science degree, December 1988 major: Computer Science & Business, minor: mathematics
1987-1988	University of Wisconsin - Madison, Wisconsin	Computer Engineering Courses
1985-1986	Western Illinois University, Macomb, Illinois	Computer Science curriculum
1984-1985	College of DuPage, Glen Ellyn, Illinois	Computer Science curriculum

