

Howard K. Dworsky
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Technical Skills

Languages: PHP, Perl, HTML, Javascript, C, C++, Qt, Java, Objective C, CSS, XML, COM/DCOM, ActiveX, Visual Basic, .NET, ATL, Fortran, Basic, 8086 Assembly, Cobol, Snobol, LISP

Operating Systems: Windows (Vista, XP, 2000, NT, 98, 95, CE, For Workgroups), OSX, SUN Sparc(UNIX), Linux, DOS, Macintosh(System 6, 7.1, 7.5), DoubleDos, VAX, Data General 2000, PSOS, ViaVideo(UNIX)

Databases: Postgres, MySQL, Oracle, Informix Universal Server, Illustra

Development Tools: LAMP Stack, jQuery, LimeSurvey, Shopify, CakePHP, TCPDF, pChart, JpGraph, Wordpress, Mantis Bugtracker, Git, Xcode, MFC Visual Studio 6, Visual Studio 2005, CodeIgniter, Sun Java JDK, CMS Made Simple, CyberSource, SOAP, CrypKey, ImageMagick, Google Maps, Photoshop SDK, COM/DCOM, CE Embedded SDK, Authorize.net, Think C, AppleScript, Photo CD Toolkit, Symantec Cafe, Turbo C, Borland C++, Microtech Research C++ Compilers, HP64700 emulator, CVS, Subversion, ClearCase

Peripherals: Raspberry Pi, DC4800, Fiery Controller, Canon CLC500, Kodak XL7700, IBM graphics printers; Kodak 35mm RFS; CGA, EGA, 3270APA, Tecmar Graphics Master, and Vectrix graphic boards; Calcomp and Summagraphics digitizers; Matrix PCR and Polaroid Palette film recorders

Employment History

Harris RF Communications – Software Engineer

January 2016 – Present

- Updated and added new features to Harris RF Communication's waveform emulator; using Microsoft's Visual 2012 C++, Visual Studio 2013 and Qt.
- Collaborated with external partners on DARPA projects to demonstrate new technologies.

Idea Connection Systems Inc. - Systems Architect

January 2012 – September 2015

- ISPI™ systems architect. The Innovation Strengths Preference Indicator™ or ISPI™ is an engaging indicator which helps diverse people work together cohesively.
- Incorporated bug tracking, source code control and agile methodologies into the software development life cycle.
- Planned and scheduled software features and releases.
- Coordinated system migration to Amazon Web Services.
- PHP/MySQL system that supports survey taking, account management, user permissions, report generation, language translations and ecommerce.
- Customized bar and pie charts representing totals and percentages of populations of people based on various criteria.
- PDF, PPT and HTML based reports used for personal reports, understanding team dynamics and management consulting.
- Using a MySQL database for storing and retrieving information for charting and reporting functions.
- Systems built around CakePHP, CodeIgniter, Javascript, TCPDF, pChart, JpGraph, jQuery, PayPal and Shopify.
- Linux shell navigation and application installation.

iDoSoftware Inc. - President

January 2011 – present

- Software development and consulting services.
- Support clients using PHP and MySQL frameworks.
- Created LiquidPixels image chains for the corporate demos.
- LiquidPixels corporate website using Perl, Mason and Prototype JavaScript Framework in a Linux environment.
- Apple OSX GUI and image processing development for the Picture-Fix application.
- Customized Wordpress site development.

Eastman Kodak - Software Engineer

May 1995 – September 2010

- Developed and maintained multiple n-tier applications for Kodak Professional products.
- Web site and client/server interfaces using Perl, PHP, CodeIgniter, CyberSource, XML, Apache, Postgres, SOAP, Crypkey and YourPay for consumers to create photo books and order imaging products.
- Web services for tax calculations, credit card processing, electronic licensing, store locators, product pricing, product routing, product management, job routing, catalog management, user permissions, email notifications and user management.
- Developed and maintained multiple n-tier applications for Kodak Professional products.
- Consistently made accurate estimates and met project deliverables.
- Out of the box thinker that can solve difficult problems.
- Backend cron jobs for automated reporting.
- Agile, Waterfall and Scrum software development.
- Worked with LifeFX, Visan, Qualex, Scientific Atlanta, Information Architects, Auragen and Liberty Photo Products to develop new/innovative Kodak products.
- Integrated automatic facial retouching into the Kodak Picture Kiosk 3.0 for a market probe. This was a major component in the business agreement with a customer.
- Magnifying glass image zooming and image compositing Java applets for the Kodak ProShots system.
- Automated Image Retouching System which included a Photoshop plugin, batch tray application, retouching server.
- Windows Explorer Shell Extensions that simplified the process of printing pictures, contact sheets and dynamic album pages.
- MFC based CyberArtist proof of concept system that used video capture and unique printed output to make the kiosk experience more enjoyable.
- ActiveX C++ controls for automatic album pages, kaleidoscopes, significant color, automatic face detection and video capture.
- Improved customer experience with Kodak Picture CD by creating MFC based interactive picture puzzle, postcard, and concentration game programs.
- Managed, developed, maintained and installed a system to capture and email images for the WhatIf interactive kiosks at Epcot.
- Key contributor with Microsoft, HP, and Live Picture in the definition of the FlashPix format and Internet Imaging Protocol Specification.
- 2004 Silver Team Achievement Award for the Skin Deep project.
- Patent [US 6,967,667 B2. Method of constructing a kaleidoscope image usable in a scrapbook](#)

BinaryStudios LLC - Consultant

January 2006 - present

- Provide hosting, development, email and consulting services for customers.
- Using Apache, Postgres, PHP, CMS Made Simple, CSS, ImageMagick, Perl, Javascript, phpBB, phpCart and Authorize.net as development tools to create customized web sites.
- Data mining web based system for doing English to Arabic transcriptions for proper nouns.
- CMS module enhancements to meet customer needs.
- Unix scripting in Perl to create Cron jobs.

OCS - Systems Engineer

November 1994 - May 1995 (Assignment at XEROX)

- User interface software for an embedded system(68302) to control a multi-function black and white laser printer.

Applied Graphics Technology - Senior Imaging Systems Engineer

June 1993 - November 1994

- Developed browser applications and Photoshop plugins to do color correction, digital imaging filters, and file conversions(TIFF reader/writer, GIF writer) on the Macintosh to integrate to the Digital Link Publishing System (Windows NT based Photo CD Image Server System).
- Built tools using Photoshop, Quark Express, Kodak Shoebox, AppleScript, Debabelizer, Excel and other applications to automate and streamline their image services business.

Eastman Kodak - Development Engineer

January 1989 - June 1993

- Expert Photo CD technical consultant to Apple, Atari, EFI, SGI, Microsoft, Storm Technology, Adobe and other companies to develop Photo CD products.
- Developed Photoshop plugins, applications and tools to decode/write, manipulate, and color correct Photo CD images.
- Used spline curves, matrices, Huffman decoding, residuals, affine transformations and lookup tables for image corrections.
- The Adobe Photo CD acquire module was the first program that enabled consumers to use a Photo CD on a computer.
- Developed a Photo CD player emulator for the Macintosh, plugin for Photostyler to read Photo CD images, Photoshop plugins to export SUN raster files, import raw RGB files, scan/print on Canon CLC500, print on the Fiery controller, and a Kodak RFS acquire module.
- Knowledgeable of Digital Imaging, Photo CD Technology, Color Theory, file formats, and CD ROM Technology.
- Worked at numerous trade shows including COMDEX, Seybold, PhotoKina, MacWorld, TED3, and Agenda 92.
- Promote and demonstrate the Kodak imaging strategy and technology by internal demonstrations and tradeshow. Educated Kodak management on digital technologies.
- Film writer, checksum and font generation components for the Imagelink Microfilmer.

Education

Washington University in St. Louis; Bachelor of Science in Computer Science, May 1983.