

Frank Merritt Braswell

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Objective

To continue to provide innovative products for the prepress industry drawing upon a strong engineering background and over 10 years experience delivering software, solutions and training to users of PostScript language imaging devices.

Summary of Qualifications

Over 20 years of software and hardware development experience including over 10 years dedicated to the prepress industry. Specialist in PostScript language issues and application of RIP architecture to prepress workflow.

Management of Small Focused Development Teams

- Developed concept, coded and implemented high volume PostScript language prepress workflow for producing yearbook pages, over 40 PageMaker or Quark Xpress prepress pages per hour per operator including automatically placed images – Taylor Publishing, 1996-1998.
- NetChek internet-based proofing of yearbook pages, 1997-1998.
- Managed design and development of Mac/Windows PageMaker plug-ins and Quark Xtensions used in production of yearbook pages – Taylor Publishing, 1997-1998.
- Managed design and development of Mac/Windows WYSIWYG desktop publishing package for yearbook design – Taylor Publishing, 1998.
- Managed design and development of Mac/Windows yearbook planning software – Taylor Publishing, 1997-1998.
- Conducted testing and evaluation of first color PostScript printer – QMS, 1988.
- First hand-held computer Bible – Managed overall project, software design and did hardware design, VBI, 1987.
- First fully digital feedback control system for vibrator trucks used in oil exploration – Managed project, did both hardware and software design and implementation – Conoco, 1981-1986.
- One of the first rocket-borne microprocessor data collection experiments used for upper atmospheric research, University of Illinois, 1980-1981.

Innovative Products, Research & Training

- 1989 – *Inside PostScript* published – Documented Adobe PostScript Language RIP internal functions.
- 1989 – Introduction of Advanced PostScript Error Handler software – First commercial PostScript interpreter error handling software and documentation.

- 1990 – Introduction of LaserCheck software – First preflight software for the prepress industry.
- 1990 to present – PostScript Concepts Seminar – Teaches PostScript language concepts and debugging techniques.
- 1994 to present – Practical Imaging Seminar – Teaches system level handling of PostScript files and related DTP application software.
- 1994 – *PostScript Interpreter Research Report* published – Engineering analysis of PostScript language RIP architecture performance. Timing measurements of each PostScript language operator were made and analyzed relative to CPU speed and memory architecture. Comparisons were then made between different PostScript language interpreters.
- 1995 - APS-Preflight software – Adaptation of the LaserCheck software to the Harlequin RIP for high-performance preflight of imagesetter files.
- 1995 – GATF/Systems of Merritt Digital Plate Control Target software – First of a series of “smart targets” for GATF. This is the first all-digital target designed to measure plate exposure on direct-to-plate systems.
- 1997 – GATF/Systems of Merritt Digital Proof Comparator software – This press target is another in the line of GATF “smart targets.”

Recognized Industry Expert on PostScript Language Issues

- Served as expert witness for Harlequin and ECRM in patent litigation trial, 1997-1998.
- Numerous magazine and newsletter articles on PostScript language error handling including Seybold Report feature article.
- Conference speaker on imaging problems.
- Conducted PostScript troubleshooting workshops at Seybold conferences.
- Newspaper Association of America Digital Ad Task Force – Member of Portable Ad Format Work Group, 1995.
- Over 1000 seminar attendees representing most all leading PostScript printer and imagesetter manufacturers and printing companies.

Broad Based Technical Engineering Background and Achievement

- B.S. in Physics & Mathematics with minor in Computer Science, Jacksonville University, 1978. Graduated Summa Cum Laude.
- M.S. Electrical Engineering, University of Illinois, 1981.
- *Rocket Measurement of Energetic Particles in the Midlatitude Precipitation Zone*, with H.D. Voss and L.G. Smith, COSPAR Space Research, Bangalore, India, Volume 8, p. 149-152, 1980.
- *Rocket-Borne Microprocessor-Based Experiment for Investigation of Energetic Particles in the D & E Regions*, with L.G. Smith, Aeronomy Report 96, Department of Electrical Engineering, University of Illinois, Urbana, Illinois, Library of Congress ISSN 0568-0581, 1981.

- Microprocessor hardware design with the following chips: Z80, 8086, 8089, V40.
- Experience with numerous assembler and high-level computer languages including PostScript, Perl, C, FORTRAN, APL, Pascal, PL-1.
- Experience with numerous operating systems: Mac, Windows, Unix, VRTX, DOS, CP/M 86, Data General AOS, VAX VMS, CDC Cyber NOS.
- United States Patent 4,857,919, Method and Apparatus for Indicating the Position of a Variable Differential Transformer.

Work History

- Systems of Merritt, Incorporated: President, Mobile, Alabama & Dallas, Texas, 1989 to present.
- Taylor Publishing Company: Principle Engineer, Dallas, Texas, 1995 to present.
- QMS: Member Technical Staff, Mobile, Alabama, 1987 to 1989.
- VBI: Vice-President Research & Development, Broken Arrow, Oklahoma, 1986 to 1987.
- Conoco: Research Engineer, Ponca City, Oklahoma, 1981 to 1986.
- University of Illinois: Research Assistant, Urbana, Illinois, 1978 to 1981.

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Key Points

- 10 Years Macintosh Development and Support
- 6 Years Mac/Windows cross-platform development

Environments

- Development Environments: MPW, CodeWarrior, MS Visual C++
- Database: Oracle, Claris FileMaker Pro, Microsoft FoxPro

Experience Highlights

Taylor Publishing Company(6/97-2/99):

- Designed and developed WYSIWYG Yearbook layout Application for elementary school users. Product had to run on Mac IISi and up, Win3.1 and up, using existing Autologic pagination system with no interruption in existing workflow.
- Designed and developed new PageMaker 6.5 plug-ins for the following tasks:
- Preflight- scans spreads for rules compliance and makes minor corrections.
- TaylorTools- an expandable floating tool palette which allows one-click access to the other Taylor plug-ins.
- Previewer- preview yearbook page design templates from within PageMaker.
- Picture Numbering- automatically number yearbook photos and indicate slope for use with cropping tool.
- Page Splitter- divides a publication into 2 page spreads and renumbers pages.
- UnNumber- removes picture number information inserted by picture numbering plug-in.
- Resolved database corruption issues in legacy proprietary DTP application.
- Ported 6 existing PageMaker plug-ins to new PageMaker 6.5 plug-in architecture.

Decision Consultants, Inc.(6/92-6/97):

- Position: Programmer Analyst, assigned to Alcatel Network Systems, Inc. (2/93 - 6/97) - Provided support for in-house and commercially developed applications on Macintosh and Windows platforms. Completed Apple Developer University courses in Macintosh Programming Fundamentals, Intermediate Macintosh Application Programming, AppleTalk for Programmers, and Introduction to Object Oriented Programming.
- Position: Computing Support Specialist, assigned to Northern Telecom, Inc. (6/92 - 1/93) - Worked on Help Desk/Support Team, supporting Macintosh, MS/DOS and UNIX. - Majority of work involved communications and cross-platform connectivity issues. Worked as VM/CMS and ACF2 coordinator for 5000+ users.

Independent Consulting Projects(6/92-Present):

- Developed a self-configuring, scriptable user interface for SharkByte Killer Transitions, Volume 1, a collection of 50 plug-in transition effects for use with Macromedia Director and AuthorWare. Ported interface to Win95/WinNT.
- Developed Status Server, an application for monitoring and logging AppleTalk and TCP/IP services, and sending alphanumeric pages on status changes. Also developed client software for remote viewing of Status log.
- Developed "Session Manager", a small database for tracking a psychologists clients and generating insurance reports.

The Baker-Goodyear Company(1/88-3/92):

Plattwood Industrial Park, Deep River, CT 06417

- Position: Hardware/Software Developer - Designed, Programmed, Tested, Implemented and Supported custom Accounting / Database system, Designed, programmed, tested and installed computerized Point-of-Sale system. Designed, Programmed, Tested and Installed computerized product labeling machinery.

Military Experience: U.S. Navy, 1980- 1986
(Honorably Discharged)

Walter Martin

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Objective

A challenging position in computer programming which will allow me to continue to grow technically, while taking advantage of the knowledge and skills I already possess. I am particularly interested in developing state of the art systems for high volume prepress production, as well as integrating these systems with the internet and database applications. An opportunity to travel would be a plus.

Experience

Designed and developed a graphical yearbook planning program. Product was required to run on any Macintosh computer using System 7 or higher, as well as any Windows machine running Windows 3.1 or higher. Extensive use of custom controls was required in order to achieve acceptable performance on the slower machines.

Developed Quark XPress 3.3 and 4.0 Xtensions for both Macintosh and Windows to:

- Automate the numbering and identification of pictures on yearbook pages.
- Add PostScript comments required by custom image replacement software.

Developed Quark XPress 4.0 Xtensions for both Macintosh and Windows to:

- Automate the production of single page EPS files from multi-page documents. The only user input required is the selection of the page range to output. The EPS files are automatically created, named, and written to the correct server and directory.
- Automatically preflight pages based upon predetermined rules and requirements. Errors which can be fixed without further customer input are corrected. Document preferences which affect output are set. A report is generated which indicates what errors were found, both correctable and uncorrectable.
- Display a dialog window which allows users to preview custom layouts which have already been created, then build an XPress document of the correct dimensions from the selected layouts.

Rewrote three existing Xtensions previously developed by an outside firm. The Xtensions were ported to the XPress 4.0 architecture and significantly enhanced to provide a more user friendly and professional appearing interface. Major improvements were made in their functionality in order to correct deficiencies and improve performance. The Xtensions' purposes are:

- Automatically create pages and covers of the correct size with the correct margins, guides, and preferences. Covers also have to take into account the number of pages, paper weight, cover stock, and type of padding, if any.
- Automate the creation of picture panel pages.
- Flip a layout horizontally or vertically on a spread or page, without mirroring.

Co-developed a utility for searching a server for TIFF images and converting them to EPS wrapped JPEG's.

Developed custom PostScript marks for use by PressWise.

Served as System Administrator for the PostScript prepress department, as it grew from seven employees to over fifty. Duties included testing and designing the prepress system once the decision was made to do all work in-house. This included both hardware and software, and involved much research, as well as extensive interaction with prospective vendors. Also served as principle RIP and imagesetter operator, and functioned as the primary trouble shooter for problem source and PostScript files.

Created various databases for DOS systems using Dbase III and IV, and Dataflex.

Relevant Skills

Programming experience in C and C++, on both Macintosh and Windows, as well as some Unix. Also, some experience in PostScript, Pascal, Applescript, PERL, Dbase, and Dataflex., as well as educational use of Fortran, COBOL, and assembly language.

Development environments used include CodeWarrior, Borland C++, Microsoft Visual Studio, Think C, Turbo Pascal and g++.

System administration experience on Macintosh, Windows 3.1 - 95, and Windows NT 3.5 - 4 on both Intel and DEC Alpha platforms.

Employment History

Taylor Publishing Company, Dallas, Texas, 1987 - Present.

Owner, Sound Odyssey Mobile DJ Service, Dallas, Texas, 1982 - 1987.

Various part time and full time jobs while in college.

Education

B.S. in Management from The University of Texas at Dallas, with a specialization in Information Systems, 1987

Began pursuing an M.S. in Computer Science at the University of North Texas in Fall 1996, but not attending classes this semester.

Personal

Single, with no children.

Very willing to travel and/or relocate.

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Objective

A position with growth potential in which I will be writing and debugging C, C++, and PostScript.

Relevant Experience

Taylor Publishing Company -- 1995-present

- Writing and debugging C and C++ code for over a year

Font Drop - A macintosh program that converts Mac and PC truetype and PostScript fonts into a Type1 PostScript downloadable font.

Tempo On Disk - A dual platform layout application for a propriety production system used to create yearbooks. Tempo was designed with built-in rules where the customer could not ship an unworkable page. Tempo has a hidden markup language for text editing that is recomposed on the fly.

Layout Previewer - A dual platform plug-in for PageMaker 6.5 that had categories and lists of different layouts. The user would get a pict/bmp preview of the layout they selected. It would then open the layout for them.

- Debugging: repair Quark, PageMaker and graphic files; repair postscript files at the postscript language level
- Liaison for PageSetter department, production employees, management and Taylor Publishing Company and its vendors
- Planning and implementation of network and pre-press workstations
- Daily maintenance of hardware and software for over thirty Macintosh, six IBM Compatibles, five Dec Alphas, two Purup Maestro imagers and a 3850 imager
- Daily calibration of Topaz and PixelCraft scanners and Purup imagers
- Imposition and trapping of postscript files using PressWise and TrapWise

Participant, Technology Internship Program – 1993-1994

- Worked on various projects at Taylor Publishing Company in Dallas, including writing articles for the company's desktop publishing newsletter, reviewing software and preparing materials to be distributed to customers. Experienced all area's of the company's pre-press operations, including customer service, copy preparation and masking.

Interscholastic League Press Conference Workshop – The University of Texas at Austin • June 1993

- Assistant Instructor, Desktop Publishing Sequence - assisted with the instruction of some 30 high school students in desktop publishing techniques on Macintosh and IBM/compatibles

Skill Level

Systems

- Mac OS 7.1-8.1 - **Advanced**; Mac OS 8.5, Windows NT 3.5.1 and 4.0, Windows 3.11 and 95, MS-DOS - **Intermediate**

Applications

- CodeWarrior, ResEdit, PressWise, PageMaker, Photoshop, LinoColor, FreeHand, Suitcase, ScriptWorks(RIP), Acrobat Distiller and Reader, BB-Edit, ColorCentral, PrintDesk(OPI server) - **Advanced**; Visual Studio 5.0, TrapWise, Illustrator, Word, Norton Utilities - **Intermediate**

Employment History

Taylor Publishing Company, 1550 W Mockingbird Ln., Dallas, Texas – January 1994 - present

- Associate Engineer/Software Systems
- PageSetter Technical Support Specialist

Delta TechReps Inc., 5952 Royal Lane Suite 266, Dallas, TX 75367 – Oct. 1994 - February 1995

- Network Administrator

Max Warehouse, 3113 N. Beltline Rd., Irving, TX 75062 – January 1991 - January 1994

- Front-end Manager

Education

Digital UNIX Seminar • five day, hands on, thorough overview of commands and utilities – June 1997

Thunder Lizard • three day workshop for PageMaker 6.0 and PageMaker 6.5 preview – February 1997

Data-Tech Institute • successfully completed Advanced Troubleshooting for the Macintosh comprehensive training program – November 1996

PostScript Concepts Seminar -- August 1996

MacArthur High School • graduated May 1994