

Julie S. Porter
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Experience:

Embedded systems development

Sept 2002 --

PCB layout for small MIDI file player using ATMEL RISC Micro: coded embedded system for a niche market using ATMEL RISC micro controller. This is full cycle development involving outsourcing of board assembly and in house hardware and software testing. Data recovery, design, test, document and support for mechanical music applications and multimedia ported into a Mac OS X environment.

Overture Music Systems, Elizabethtown, Kentucky.

October 2001 to Sept 2002.

Designed, coded, tested hardware and firmware for 8-bit micro controller to play industry standard music disks (MIDI) on solenoid driven piano. Tested and bug fixed Windows MFC application using USB and Compact Flash memory systems. Wrote RTOS for 8051 (Dallas 80C320) and ATMEL RISC micro controllers using Waferscale (ST micro) PSD express integrated development environment (IDE) with Kiel embedded controller software and IDE.

Electronics for imaging. (EFI) San Mateo/Foster City, California.

July 1998 to September 2001

Designed, coded, tested JPEG reference suite for quality testing of proprietary compression algorithms. Investigated, coded tested XML based PPML (Printer Page Markup Language.) for industry tradeshow. Desined, coded, tested low cost imposition (Booklet maker) for embedded printers and copiers. Software maintenace engineer on core Fiery products.

Part time Consultant.Phil Stewart, Contractor online.

April 1999 to January 2000.

Designed, tested, debugged hardware and firmware (68HC11) for NTSC RGB converter and drivers for Liquid crystal heads up display. Full investigation of 8VSB ATSC broadcast TV standards. I2C bus for Motorola videocontroller chip.

Apple Computer Inc. Cupertino California,

March 1995 to April 1999

Software Test Tool Engineer. Designed, coded and tested new technology demo. Tested Postscript 3 functionality on the Laserwriter 8500. Coded additional tests in Postscript 3 to stress product specific features for the 8500 and other current products. Duplex printing, Photograde Image enhancement, and SCSI communications. Coded additional tests to stress JPEG image encoding, Postscript 3 features, and Color Image Mask. Converted start, demo and configuration pages to Postscript 3. Continue to maintain tools written in C++ from 1993 contract. Developed, coded and tested duplex printing suite on the LaserWriter 12/640. Completed testing work started in 1993 on the Color Laserwriter 12/600. Direct contact with vendor (Adobe) on language design implementation issues. Work directly with the hardware, software and mechanical design team on Postscript related questions. Continuing investigation of technologies FireWire, MPEG 2 compression, and QuickTime.

ArriSystems.Nashua New Hampshire/Santa Clara, California.

May 1994 to March 1995

Lead Programmer. Designed and coded Postscript EPS file system for NPS Retoucher in C++ under Windows 3.2. Joined the 68000 team to develop the IMagician Graphics Accelerator, Coded file system for EPS, Scitex CT & TIFF, Added Spatial filter (convolution) functionality. Coded UNIX style semaphores & message queues for the Hurricane Accelerator for testing in an IMagitex Scanner at the New Hampshire location, using Intel i860 Assembly language.

Quorum Software, Redwood City California.

November 1993 to February 1994

Software test Engineer. Tested the postscript printing interface of Quorum's product Equal, which allows Macintosh applications (Microsoft Word & Microsoft Excel) to run on HP,SGI, and Sun UNIX workstations under GUIs such as Motif, Openlook and VUE. Developed PostScript procedure set to allow X font bitmaps to be rendered as Postscript fonts with Macintosh style and encoding.

Apple Computer Imaging. Santa Clara California.

May 1992 to November 1993

Software test Engineer . Tested LaserWriter IIf/IIg ROM revision. Tested LaserWriter Select 310 and LaserWriter Select 360 ROMs for Postscript functionality. Tested Personal LaserWriter NTR ROM revision. Tested LaserWriter Pro 600/630 for compatibility with concurrent projects. Tested & coded start up page in Postscript for the Personal LaserWriter select 320. Wrote Postscript Level 2 color test suite. Developed tools inMPW C to down load Postscript to direct connect postscript printers. Developed tool in MPW C to down load Postscript using PDEF10 the LaserWriter driver resource (Printer Access Protocol). Developed tool in C and C++ to convert Binary Data to Adobe's Tagged Binary Communications Protocol. Developed Microphone script tool to communicate with printers via a special Apple communication protocol. Developed tools in C and C++ to communicate with Color Laserwriter 12/600.

Miscellaneous contracts through Global Dynamics & Applied Technology Associates of Delaware, along with other independent positions.

September to April 1992

Clients Included, The United States Navy, The Learning Company, Several Architecture & printing firms in the Benicia & Walnut Creek light industrial areas, Also worked with individuals on an as needed basis.

James M. Montgomery Consulting Engineers Inc. Walnut Creek California.

November 1988 to September 1992

Self employed computer graphics Engineer. Designed automated reporting system in C; Enabling graphical data (PERT Charts, Critical Path Schedules) to be generated and moved between VAX and IBM (generating) platforms and Macintosh (Presentation) platforms. Extensive usage of Postscript, DXF and HPGL In a color environment.

Infomax inc. (Computerland retail stores), Walnut Creek California.

September 1982 to November 1988

Lead customer service representative Managed team of three service technicians to provide software and hardware repairs to small computers. Provided telephone and on sites service to retail customers.