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- Education:** B.A., 1975, Connecticut College, National Merit Scholar.
Double Major: Studio Art and Creative Writing.
Advanced Computer Science Courses: Pascal Programming.
Taught several courses in Toolbook II, and one in Introduction to BASIC (see details below).
- Hardware:** IBM PC (MPC compliant), UNIX/VAX (Sun), digital audio, videodisc, Macintosh
- Languages:** PHP, MySQL and Oracle (databases), HTML, Javascript, Perl, JSP/Java, Toolbook II/Multimedia Toolbook, C (MicroSoft C, Turbo C, GNU C [Unix]), AuthorWare. Also: Pascal, Tutor, PILOTPlus, TurboBasic, some Assembler
- Other Skills:** Authoring Systems (create and use), WBT, CBT, IVD, Unix, MS DOS/Windows, GUI design, project management, interactive computer graphics, multimedia. Familiar with many Windows applications including MS Word, PaintShop Pro, PowerPoint, Access, etc.
- Other:** Active Top Secret Clearance (TS/SCI), based on SSBI with life-style polygraph.

Experience

**Cubic
Applications
Alexandria, VA
July 1996 -
present**

Consultant

– Created multiple web-based interfaces to provide a network-centric view of data, in graphical and tabular formats; these interfaces include various front-end/back-end combinations (PHP/MySQL, JSP/Oracle, PHP/Oracle), with the data collected from client files.

- Created a web-based store ("WebStore") where clients can configure computer systems before purchase and obtain quotes and details automatically; this program, written in PHP and MySQL, is completely data-driven, and can be completely updated and expanded without any re-programming.

- Created an IntraNet TS/SCI course, in HTML and JavaScript, first as sole programmer and then as lead programmer and programming manager, for that

client.

- To date, have created five other IntraNet TS/SCI courses based on the procedures set up in the initial course, at the same location.

- Created a Web-Based Tool for Web-Based Training (WBT²) to make the creation and maintenance of our Web-Based Training quicker, easier, and more maintainable. New version, fully database-driven, WeBTuT, is ready for initial testing deployment.

- Designed and programmed the interface for a project for the Defense Intelligence Agency; this multimedia program is both simple and engaging, running direct from CD, for use as a "pre-course". Also created all code, plus procedures for ensuring the courseware could be developed quickly, efficiently, with maximum impact.

- Created several projects' web sites, including some which have been copied by other projects at the Fort Meade location. These are clear, easy to use, and easy to maintain/expand.

- Webmaster for a group of projects at a client in Fort Meade, Md. Manage content, create, edit and post materials; automate processes using various languages, including Perl, PHP, and Toolbook. Includes all design and implementation.

- Provided web-based documentation, and those pages and menus necessary to access it.

**Multimedia
Software, Inc.
Frederick, MD
(for Bell Atlantic)
Sept. 1995 - Nov.
1996**

Project Manager

Acting as BA project manager overseeing a multimedia training project, being executed by an outside consultant; this project, in Multimedia Toolbook, was delivered on CD-ROM.

**NUS Training
Corp.
Gaithersburg, MD
and
The Learning
Group
Rockville, MD
May 1995 - June
1996**

Consultant

Working in Toolbook and Multimedia Toolbook as a consultant on several projects for these two organizations:

- at NUS, developed adjunct utilities and innovative processes for streamlining their development. Developed documentation and training on the use of these processes.

- Sole programmer on two different projects for The Learning Group.

**Multimedia
Presentation**

Technical Director

Coordinated technical support for clients and technical service on in-house

**Systems
9644 Deereco
Road
Timonium, MD
21093
Nov. 1994 - April
1995**

hardware and software. Managed setup, configuration, and delivery of ordered hardware and software. Worked with technical staff on programming and development issues. Had final responsibility for all technical support and service matters, including maintaining and developing technical support and service records, databases, and procedures.

**Loral WDL
7100 Standard
Drive
Hanover, MD
21076**

Senior Software Engineer

Worked on the prototype of a high-level MS-Windows course- development tool, plus an innovative, money- and time-saving approach to courseware development. Duties included:

- lead courseware-structure designer,
- assisting with screen and user interface design;
- coding prototypes and training simulations.

Working principally in Authorware and Toolbook.

**Online Computer
Systems
20251 Century
Blvd.
Germantown, MD
20874
1991 - October
1993**

Senior Instructional Systems Engineer

Worked on database-related projects in C. Duties included creating data-retrieval routines, data-conversion, and multimedia demos. Worked principally in Unix, using C and GNU C; and DOS/Windows, using Microsoft C.

**MetaMedia
Systems, Inc.
(a division of
OCS)
20251 Century
Blvd.
Germantown, MD
20874
March 1984 - 1991**

Multimedia Programmer/Senior Instructional Systems Engineer

Lead programmer and system software designer on many large-scale multimedia/instructional projects. Duties included: creating all framework code, designing, all the data collection routines, all the authoring system (OASYS) templates, and attendant subroutines.

Also created many executable utilities to increase the efficiency of the course development process.

Created OASYS templates noted for their flexibility, power and breadth. Courseware created with these templates is easily updated by non-programmers.

Principal accomplishments:

- created the templates and code structures for the world's first authoring-system-based networked Team-Training system for PC-level machines
- made an interactive code-generation facility for large courseware projects (a precursor to OASYS)
- was the sole programmer/program designer on GATE, a large-scale interactive instructional system
- directed a staff of four programmers for a major interactive videodisc training program for the US Army;
- acted as project manager and lead programmer/analyst on the NLM

MEDTUTOR project;
- trained clients in the use of our proprietary authoring system and language.

**University of
Maryland,
University College
Center for
Instructional
Design and
Evaluation
January 1983 -
March 1984**

Lead programmer and supervisor of programmers

on a Calculus instruction contract for Control Data Corporation. Acted as chief technical liaison with CDC; worked with touch panel interfaces; created routines which were incorporated into all CDC Calculus courseware nationwide.

Other

Over 20 years experience in all areas of Software Engineering, from CBT to WBT to web-based database access. Responsible for all levels of design from GUI to back-end and database structure. Lead programmer for most of these 20-plus years, with teams of up to 15 workers supervised. Have handled challenges in systems of all sorts, from multimedia-PC-based solutions to distributed web applications over intranets.

Taught a course (several times) in Multimedia Toolbook/Toolbook II at the George Washington University, Center for Career Education; this was a one-week course or "Institute", covering basics through advanced topics. Also taught a course, "Introduction to BASIC", at the University of Maryland's University College, Evening School.

Have my own consulting company ("Computer Programming Unlimited"), since 1995.

I do consultant work in several languages for various clients, including the National Library of Medicine, the US Postal Service, Hamlin Interactive Services, Multimedia Software Inc., and The Learning Group.

Clients for whom I acted either as team leader, lead programmer or project manager include: CDC, Martin Marietta, Xerox, DuPont, Chrysler, IBM, AMP, the Library of Congress, the Smithsonian Institution, Upjohn, the US Marshals Service, the Federal Law Enforcement Training Center, Big Brothers/Big Sisters (National Capital Area), and CCH.

Strengths

- an unusual combination of skills: along with extensive programming experience, a strong background in and understanding of human factors and interface design (including the visual design capabilities from my art training).
- good communication skills, which can be used to help people in different areas of a project understand each others' problems and concerns.
- project management experience, which allows me to understand the issues relevant to that side of the development process.
- experience with both authoring systems and databases which provides an appreciation for the time and expense that can be saved with the judicious application of these two approaches.
- a quick learner, conscientious and willing to do what is needed to do the job right.

- work well both independently and as part of a team.

References (both Business and Personal) available upon request.