

Sterling W. (Chip) Camden, IV

<http://www.camdensoftware.com>

Experience

Camden Software Consulting

Bainbridge Island, WA

<http://www.camdensoftware.com>. Software consulting firm.

January 1994 - Present **Owner**

Provide consulting and software development services for professional software developers. Client list includes 50 software development firms worldwide, of which 5 have active projects with my firm. Most clients are developers of vertical market software for resale, usually holding or pursuing the lead in their vertical market. These markets include criminal justice, banking, manufacturing, aircraft maintenance, mail-order pharmacy, resort management, legal, accounting, distribution, consulting, and web site services, among others. A few clients are end-users with their own MIS departments. Most are migrating existing applications to Windows and the web, or are integrating with third-party products such as Microsoft Office or web services. Languages regularly include Synergy/DE, Ruby, Java, C++, C#, Visual Basic, Delphi, SQL, PHP, and Perl in the development of web services and clients, application components, COM clients and servers, web sites, and DLLs.

Primary client (ca. 50% of current revenue) is Synergex, developer of the Synergy/DE development environment (DBL language and associated tools). Helped them port this development environment from a character-cell orientation to Windows platforms and incorporate support for ActiveX controls and .NET components. Primary developer for the Synergy UI Toolkit. Lead designer and developer of the Synergy Composer, a visual development tool. Aided in design of Java/COM/.NET to Synergy remote call interface, as well as extensions to the Synergy DBL language, including object-orientation, dynamic memory allocation, XML and HTTP interfaces, reentrancy, the DLL interface, and web extensions.

I write weekly for TechRepublic's IT Consultant blog (<http://blogs.techrepublic.com.com/project-management/>) and occasionally for [Geeks are Sexy] Technology News (<http://geeksaresexy.net>). I also author Chip's Tips for Developers (<http://chipstips.com>), a collection of free tips, tricks, and examples with source code downloads.

Camden & Yaeger Computer Solutions

Gulf Breeze, Florida

Software consulting firm.

April 1991 - January 1994 **Owner**

Provide consultation and develop software for businesses. This firm became Camden Software Consulting when I moved to California and later Washington. Many of the same clients and services as outlined above. During this period, the web was unknown to our clients, and Windows was not a concern for most. Rather, they were primarily

interested in migrating to UNIX and DOS platforms from VMS or PDP-11 operating systems, as well as updating the look and feel of their applications with a more event-driven approach, and they enlisted our services to help with this effort. Primary client (ca. 90% of revenue) was DISC (which later became Synergex). Helped them to add extensions to their language, UI Toolkit, and Report Writer. Increased the capabilities of the Toolkit by over 200%. Single-handedly designed and created the Window Designer, a visual development tool for character-cell environments that became a prototype for the Synergy Composer. Advised DISC to pursue the Microsoft Windows platform in preference to X-Windows/Motif, and aided in the initial design and prototype of the Windows product. Languages included C and Synergy/DBL. Also performed competitive analyses of Progress and Visual Basic. Taught classes for DISC customers and presented numerous times at the DISC Developer's Conferences.

Digital Information Systems Corporation (DISC)

Rancho Cordova, CA

Developer of tools for software development.

June 1991 - January 1992 **Senior Programmer**

Developed new versions of Report Writer and Developer's Toolkit packages. These versions significantly boosted the capabilities of both products. In the Report Writer these included support for complex arithmetic and conditional operations, multi-line detail and break output, the ability to use subtotals in calculations, external data interface (for data other than from a database), question fields, complex handling of multiple projections of table relations and others. In the Toolkit, features included list processing, Data Dictionary interface, and terminal-independent function key support. All work was done in the Synergy/DBL language on a MIPS UNIX platform, and was ported to many (ca. 200) UNIX platforms, MS-DOS, and DEC/VMS.

CPAS, Inc.

Pensacola, Florida

Supplier of software solutions for accountants.

May 1990 - June 1991 **Director of Systems Support**

Responsible for system interface software and software development tools. Managed a group of 6-8 programmers and support representatives, providing customer support for operating systems and utilities issues, as well as internal support for utility libraries and development environments. Software for resale was written in Synergy/DBL and was ported to Unix (Convergent, SCO, AIX, and Altos XENIX), DEC/VMS, MS-DOS, RSX-11M PLUS, and TSX-PLUS operating systems. Systems support software also included routines in C, Bourne Shell, and DCL.

January 1989 - May 1990 **Director of Tax & General Ledger Development**

Coordinated all phases of software development cycle for tax preparation, depreciation, and general ledger packages. Directed a group of 3 managers and up to 20 programmers, designers, and test engineers to produce CPA-caliber accounting applications in a timely fashion. Software was written in Synergy/DBL and ported to UNIX, MS-DOS, VMS, RSX-11M PLUS, and TSX-PLUS operating systems.

July 1987 - January 1989 **Application Manager, Accounting Products**

Managed design, programming, and testing of tax preparation, general ledger, depreciation, and practice management software. Managed a group of up to 12 designers and programmers. Successfully released versions on time that incorporated the Tax Reform Act of 1986 and the subsequent revisions of 1988. To the existing 1040 application we also added packages for 1120, 1120S, and 1065 returns, which were designed and developed from scratch under my supervision. Supported 40 individual state tax returns, and designed and developed a domain-specific language targeted to reducing the time to implement a state tax return. This language improved performance of the state tax return processing by 400%, while at the same time increasing programmer productivity to the point where we were able to add support for corporate state tax returns, nearly tripling the number of returns that we supported. Managed the incorporation of various FASB rules into the General Ledger, including the Statement of Cash Flows. Depreciation interfaced tightly with both the General Ledger and Individual or Corporate Tax programs, and the General Ledger could feed directly into the Corporate Tax return. Supervised the design of a new Practice Management system, which was implemented later and has since been marketed successfully.

February 1987 - July 1987 **Programming Services Manager**

Managed programming of all software packages, which included accounting, legal, and construction management software. Worked with a staff of up to 10 programmers to improve productivity by establishing programming standards and by extending the utility library and development environment.

January 1986 - February 1987 **Manager of Systems Development and Support**

Responsible for development and end-user support of system interface software and user utilities. Managed a group of up to 8 programmers and support representatives, who aided customers in the implementation of new operating systems and installation of new software. Upgraded the software and operating systems of over 1300 customers, which included CPA firms, legal firms, and construction companies.

March 1984 - January 1986 **Senior Systems Analyst, R&D**

Designed and programmed system interface software, user utilities, internal applications, and an end-user report writer. Designed and developed a simple domain-specific language for computing state and city payroll withholding tax. Developed a DBL-callable Fortran-77 routine for computing state and city sales tax based on ZIP code. Worked with two other developers to design and develop process control software in Fortran-77 for automating the creation and distribution of software media, with an automated interface to Accounts Receivable. Created a multi-volume backup utility and remote-control terminal command utility for RSX-11M. Ported applications to new operating systems, including Altos XENIX and DEC/VMS. This involved writing utility support routines in C and Assembler. For the port to Xenix we also had to create our own serial communications software, which we wrote in Synergy DBL.

March 1983 - March 1984 **Programmer/Analyst**

Designed and programmed accounting applications in DIBOL-11 and DBL, including Depreciation, Practice Management, Job Costing, Equipment Costing, and Payroll. These applications were ported to CTS-300, TSX-PLUS, and RSX-11M, and were required to run in 16KB of memory.

Oral Roberts University

Tulsa, Oklahoma

Academic and Research Computing Department

May 1982 - March 1983 **Programmer/Analyst**

Designed and programmed administrative and academic research applications. These included student and faculty records, chapel attendance, aerobic points tracking, and student health services systems written in COBOL using Data General's INFOS database; Conversion of Tektronix PLOT-10 graphics software and Stanford University Gel Analysis software from DEC Fortran to AOS Fortran V; CBT English tutorial software written in BASIC; Statistical analysis of survey results written in SAS; Cashier and University Budget Office software written in PL/I; and various system utilities written in Assembler, ALGOL, and CLI.

September 1978 - May 1982 **Operator (Work/Study program)**

Responsible for operation of university computer system and development of systems software and utilities. Self-taught in my spare time in BASIC, COBOL, ALGOL, PL/1, Eclipse Assembler, and PASCAL. Wrote operations inventory program in COBOL, tape inventory program in ALGOL, and serial print spooler in Assembler. Finished and corrected a driver for mark-sense card reader for AOS in Assembler. Added features to a screen-oriented text editor also written in Assembler. Created an input screen designer in ALGOL that generated an ALGOL procedure to display and manage the screen being designed. Created a calculator routine in ALGOL with multiple memory entries and complex arithmetic operations, including logarithms and radices. Improved numerous utilities, streamlined operations, and tightened system security. Installed upgrades to AOS operating system. Managed University library system written in MUMPS. Provided debugging advice to students.

Languages

DIBOL (Synergy DBL versions 2.2 thru 9.3, DEC DIBOL-11 & DIBOL-8), Ruby, Common Lisp, Python, Java, JavaScript, C#, C/C++ (Microsoft Visual C++, many UNIX and DOS compilers), Slick-C, Borland Delphi, ASP, ASP.NET, PHP 4 & 5, Perl 5, InstallShield 5.5 thru 9, Visual Basic (versions 2.0 thru .NET 2008), VBA & VBScript, SQL (Oracle, SQL Server, MySQL), Fortran-77, COBOL, ALGOL, Basic, Pascal, Fortran IV & V, DEC PDP-11 Assembler, DG Eclipse Assembler, SAS, awk, sed, bash, Bourne and Korn Shell, PVCS configuration builder, DCL (VMS & RSX), DG CLI.

XML (XSD, XSLT, XPath, SOAP, RSS, ATOM, OPML, and other grammars), HTML, XHTML.

Voting member of the RSS Advisory Board (<http://www.rssboard.org/>) since January, 2008.

Voting member of the ANSI X3J12 committee for Standard DIBOL, representing CPAS, from March 1990 thru May 1991. Hosted the committee meeting of April 1991, at which the DIBOL-92 standard was voted into public review.

Rendered a written opinion and was deposed as an expert witness in November, 1992 regarding DIBOL programming practices in the counterclaim filed on behalf of Defendants in "BUSINESS TECHNOLOGY GROUP, INC. v. UPCON PROPERTY SERVICES, INC., and THE UPCON GROUP, INC." (Case No. 92 LM 1685, STATE OF ILLINOIS NINETEENTH JUDICIAL CIRCUIT COURT).

Authored a 19-session course in Programming in Synergy DBL and taught that course five times while at CPAS.

Frameworks

Synergy/DE UI Toolkit (v2.2 through v9.3), Ruby on Rails, WordPress, Prototype, JQuery, JDK 1.1.2, Microsoft Platform SDK and .NET Framework, Microsoft Windows DDKs, MFC/ATL, Microsoft Office Developer Kit, Corel WP Suite 8 SDK & SDK 2000.

Operating Environments

Windows	Microsoft Windows 7, Vista, 2003, XP, 2000, NT (3.1 beta & up), Windows Me, Windows98, Windows95, Windows 3.11, 3.1 & 3.0.
MS-DOS	MS-DOS (2.1 and up), TSX-32
Unix	Debian and Red Hat Linux, Digital Unix (Tru64), HP/UX, System V, AIX, DG/UX, SCO UNIX & Xenix, Altos Xenix
DEC	OpenVMS (Alpha and VAX), RSX-11M, RSX-11M PLUS, MicroRSX, RT-11, CTS-300, TSX-Plus
Data General	AOS, RDOS
Other	CP/M

Networks & Protocols

HTTP, FTP, CGI, REST, SOAP, IIS, Apache, Cisco VPN, Microsoft Terminal Services, Microsoft Windows Networking, RAS, Novell Netware, Banyan Vines, DEC-NET, Synergy/DE xfServer series, Telnet, SSH, SFTP.

Hardware

PC	Original PC and compatibles through Intel Core Duo
DEC	Alpha, VAX 11/730, 11/750, 11/780, MicroVAX II, MicroVAX 2000, PDP-11 (most models from 11/03 through 11/83 & 11/84), PDP-8, Rainbow PC.

IBM RS/6000, PC-RT, 4331
Unisys Convergent S/Series (S-120 thru S-640)
MIPS M/120, RC-3240
Data General Eclipse C-330 & S-120, Nova 840, Aviion
Altos 586, 986, 2086, 3286

Memberships RSS Advisory Board
Synergex Solutions Library
Sun Java Developer Connection
Corel Solutions Partner

Education Oral Roberts University Tulsa, Oklahoma
B.A., Biblical Literature GPA: 3.7/4.0

Citizenship United States of America

Interests Writing, hiking, literature, poetry, music, history, ancient and modern languages, philosophy, travel.

Personal Blog Chip's Quips (<http://chipsquips.com>)

References Available upon request.