

Samuel A. Smith

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- Education: M.S., Electrical Engineering, University of Kentucky, August 1983 (4.0 GPA)
B.S., Electrical Engineering, University of Kentucky, May 1981 (3.93 GPA)
- Languages: C, C++, BASIC, Visual Basic, Pascal, FORTRAN, RPG-II, various assembly languages (including Intel 80x86, Motorola Power PC, Motorola 68xxx, 8085, Z80, 64180, 6809, 6502, 8048, 8051, et.al.)
- O/S: HP/UX, SunOS, Solaris, Novell Netware, Linux, RTXC Quadros, Microsoft Windows 3.x/95/98/ME/NT/2000/XP
- Qualifications:
- Over 20 years of experience in software/algorithm design, analysis, research and development, and software engineering management
 - Cross-platform development skills
 - Embedded development skills
 - Internet-savvy
 - Self-starting
 - Competent, Diplomatic, Patient, Tenacious

November 2003-Present **DRS Test & Energy Management Inc.**, Huntsville Alabama
Senior Systems Software Designer / Software Engineering Department Supervisor

- Software Lead: EDS (Embedded Diagnostics Simulator) updates. Overseeing the work of a contractor in adding new fault scenarios
- Committee: SCM PAT (Software Configuration Management Process Action Team). Updating procedures relating to software release for SEI/CMMI effort at DRS TEM
- Project: FTTS/HEVC (Future Tactical Truck System/Hybrid Electric Vehicle Controller). Updates to the HEVC to add support for hardware floating point; assisting in design and coding of FTTS HEVC Personality Module
- Project: CM/ED (Chassis Modernization/Embedded Diagnostics) Production Tester. Minor participation to add capability to access serial number database
- Chief Architect: EDS. Design and coding of a U.S. Army M1A1 AIM simulator with fault injection capability, for tank maintenance technician training
- Chief Architect: GACS (GPEOH Automated Calibration System) updates. Addressing various calibration issues
- Chief Architect: ELDS/HEVC. Updates to the HEVC to support the ELDS (Electric Launcher Drive System) hardware variant
- Software Lead: CMU UGCV (Unmanned Ground Combat Vehicle). Final coding. Traveled to Pittsburgh PA (on short notice) for six weeks of integration and debugging

(In November 2003 PEI Electronics Inc. was bought by DRS and became DRS Test & Energy Management Inc.)

July 2001-November 2003 **PEI Electronics Inc.**, Huntsville Alabama
Senior Systems Software Designer

- Project Engineer: GACS. Also software lead, and design and coding of Radiometric Calibration subsystem

- Industrial Committee: JAUS (Joint Architecture for Unmanned Systems). Ongoing participation in standards committee with many industrial representatives (U.S. Robotics, CMU, etc.)
- Software Lead: HEVC. Also software architecture, design, and coding
- Project: PEI-CIM2. MPC850 reprogramming facility via HMI BMD emulator

1984-2001 **Huntsville Microsystems Inc.**, Huntsville Alabama

Senior Software Engineer / Network System Administrator / De-facto Software Department Manager

- De-facto Software Department Manager
- Revision Control System Manager
- Network System Administrator (Firewall and system security, DNS administration, e-mail management, FTP site creation and maintenance, World Wide Web site creation and maintenance, Usenet News administration, corporate intranet, interface with BellSouth and HiWAAY)
- Network System Backups Manager
- Software: Ported HMI's legacy dBase databases to the corporate intranet (for web-based access to business records and the like)
- Software: Executable file format converters (various, including Motorola 'S' records, Intel hex records, Extended Tekhex, IEEE-695.1, COFF, IAR (UBROF), ELF/DWARF, et.al.)
- Chief Architect: SourceGate II. Also design and coding
- Software: SourceGate series source-level software/hardware debugger
- Software: ECS200 series source-level software/hardware debugger
- Firmware: HMI-200 series emulator
- Software: ELINKS series symbolic software/hardware debugger
- Software: 8085, Z80, 6809, 6502, 8048, and 8051 cross assemblers

1977-1984 **Various**

During high school and college years I held a variety of jobs, starting as a member of the Louisville Heritage Weekend crew for the *Louisville Heritage Weekends* in Louisville Kentucky. For the Armor Elevator Company office in Louisville Kentucky I held positions as Data Processing Assistant, Assistant Programmer, and System Programmer. For the University of Kentucky in Lexington Kentucky I held positions as Grader (for the Rotating Machines lab), Teaching Assistant (Rotating Machines lab and Logic Design), and Instructor (Logic Design and Senior Electronics lab).

Academics: U.K.R.F. graduate research fellowship; Robert L. Cosgriff Award; University of Kentucky Honors Program; 3M Scholarship; National Merit \$1000 award; HKN (Electrical Engineering honor society); TBP (Engineering honor society); Graduate thesis: "A Microprogrammed Processor to Generate Prime Implicants"; Independent studies: LOGSIM Logic Design Simulator, and 16-bit microprogrammed computer design.

Miscellaneous:

- MSDN membership
- Member of IEEE
- Manager and chief content provider for several sites on the World Wide Web. See <<http://www.smithuel.net/>> for details.