Gordon A. Smith

Associate **Booz Allen Hamilton**

Mr. Smith has 28 years of experience in the entire software system development process, using a wide variety of computer platforms and languages in the development and maintenance of both corporate and government business, financial, and scientific applications. Mr. Smith has developed skills in web development, rapid prototyping, computer graphics and user interfaces that enable fast visualization of concepts and definition of requirements. He also has experience in database, modular, dynamic, object-oriented, and rule-based/knowledge-based software techniques, including expert systems, as well as video/multimedia, and desktop publishing. Pulling from decades of experience with numerous hardware and software products and techniques, Mr. Smith often combines this experience, thinking out-of-the-box to come up with creative solutions to match a project's given resources and funding.

Clearance

Top Secret – special accesses with an EBI

Education

B.S., Computer Science, Pennsylvania State University	1981
B.S., Biology, Pennsylvania State University	1981
Certificate, Marine Science, Pennsylvania State University	1981

Training

Datamining Training	September 2003
Cold Fusion Training	November 1998
MS Visual Basic course	January 1998
JAVA programming course	1996
RDR's Programming with DBKit	March 1993
RDR's Programming NeXT Computers	March 1993
GE Object Oriented Analysis course	February 1993
Sybase courses (Open Client, Fast Track)	November, December 1992
C++ Hands on Object-Oriented Programming course	October 1992
HNC Neural Networks course	1988
Natural Language Processing (George Mason University)	1983
GE Database Concept course	1982
GE Software Engineering Program	1982

Work History

Booz Allen Hamilton	Associate	08/1995- present
Martin-Marietta	Lead Developer	03/1993- 08/1995
General Electric Co.	S/W Design, Develop, Implement, Test, Document, O&M	01/1981- 03/1993

Relevant Experience

- **High-paces, onsite web development.** Mr. Smith took over the role of web master for the high-paced on-site IMINT website. He coordinate with web contributors, arranges and leads meetings and presentations, and coordinate closely with the client. While maintaining the often changing content, Mr. Smith is developing and adding dynamic features and databases to website. The web sites uses ASP, RIA/AJAX, Javascript, databases and Dynamic HTML.

- **ODNI Center for Academic Excellence.** Mr. Smith is the sole web master/developer for ODNI's CAE website on a secure network. The web site features online registration, user authentication with roles, admin features, blogs, forums, and calendar. The web sites uses PHP, Javascript, MySQL database and Dynamic HTML.

- **IC Legal Conference.** Mr. Smith was the sole web master/developer for ODNI's IC Legal Conference on a secure network. This web site features conference information, biographies, online registration, user authentication with roles, and admin features that allow select individuals custom Content Management features to maintain and retrieve course and registrant information dynamically on the web. The web sites uses PHP, Javascript, MySQL database and Dynamic HTML.

- **Sharepoint Development.** Mr. Smith developed and is currently the web master/developer of Booz Allen's first highly-visible Sharepoint website on the CWAN using Sharepoint and ColdFusion to advertise Booz Allen to others and allow employees, teams, projects and leaders to collaborate. Allows NRO MAT Leaders to track opportunities (TPRs). Mr. Smith has put together and presented brown bags and training on the web site's capabilities. Mr. Smith quickly learned Sharepoint software and techniques, while developing the web site in a couple of weeks. The web site also uses Javascript and dynamic HTML.

- **Dynamic Web Development/Implementation.** At Booz Allen, Mr. Smith is a web developer for a series of websites for a Human Resource government client. The websites maintain dynamic personnel, registration, voting and training information. Mr. Smith developed a unique online document presentation and content management system, as well as budget and survey tools showing graphic results. All work is done at the client site using ASP, dynamic HTML, Javascript, graphics and a SQL Server database.

- **Transition of Legacy System to COTS/Customized Solutions.** Mr. Smith was the sole designer and software/web developer for transitioning the Defense Telecommunications Services – Washington (DTS-W) public website over to PaperThin's CommonSpot COTS package with client customization. All work was done at the client site using CommonSpot, ColdFusionMX, dynamic HTML, Javascript, SQL Server, graphics. He now provides updates and maintenance of this website at the client's request.

- **Delivers Innovative Web Solutions for the Intelligence Community.** Mr. Smith was the webmaster and sole developer for an Intelligence Community's website that incorporates Cold Fusion MX, dynamic HTML, Javascript and a mySQL database. The web site was completely redesigned to be dynamic, interactive and maintainable by the user using custom-built content management techniques. It also features custom-built collaboration within and among teams, and assigns user access and administrative rights by user permissions. He continues to provide

forward thinking and ad hoc solution requirements such as the 2006 request to create a document archive web page.

- **Creates IT Solutions in a Fast-Paced, Mission-Critical Environment.** Mr. Smith was the lead software/web developer and sole developer for a United States Secret Service website that incorporates Cold Fusion MX, dynamic HTML, Javascript and a SQL Server database. All work is done at the client site in a fast-paced development and operational environment.

- Mr. Smith was the lead software/web developer (and sometimes sole developer) on a small team for the challenging AIRBAT web site. The effort involves a fusion of Cold Fusion, Javascript, HTML, and SQL and uses a SQL Server database. It involves a tight schedule with quick timelines and high-paced development.

- **Exceptional Project Commitment.** Mr. Smith spent almost a year traveling between the D.C. area and Key West, FL., to develop an overall web structure and web content for the Joint Interagency Task Force East (JIATFE)'s counter-drug efforts.

- **Legacy Data Transition Expert.** Mr. Smith was the sole developer in the conversion of the Human Resource Management Information System (HRMIS) database front-end from legacy custom NextSTEP code and Oracle database to SAP with a web front-end interface.

- **Develop, Customize, Innovate, And Convert Legacy Data.** Mr. Smith was part of a nine-person team working on the Human Resource Management Information System (HRMIS) project. HRMIS is a large, comprehensive Oracle database for the Human Resources Management Group of a classified client. The database, with front-ends in both Oracle Forms and NeXT graphical user interfaces, supports all functional areas of personnel administration and human resources management including personnel management, position management, career planning, training, awards, appraisals, compensation, and budgeting. Mr. Smith is developing HRMIS software using Objective-C and object-oriented techniques on NeXT and Intel-based computers running the NeXTSTEP and OPENSTEP operating systems. He is familiar with NeXT's Enterprise Objects, NeXT's Foundation Kit, NeXT's graphics and windowing, and interacting with an Oracle database. Mr. Smith has developed several utilities programs to expedite current HRMIS software development, and is assisting in the conversion of software and data from the NEXTSTEP/OPENSTEP environment to Windows NT.

- **Intelligence Gathering/Dissemination Software and Systems.** Mr. Smith was a technical lead on a six person team working on the NGA Merlin program. He was involved in designing, coding, and testing various software applications in the Merlin suite of programs as well as presenting at customer meetings. Merlin is involved with developing and maintaining a suite of software database applications for creating, viewing, updating, verifying, reporting, and analyzing program-specific database information. The Merlin software was developed in Objective-C on NeXT computers using object-oriented techniques, NeXT's Enterprise Objects, NeXT's Foundation Kit, and interfacing with a SYBASE database.

Relevant Experience Prior to Booz Allen Hamilton

- **Technical Lead--Analyze, Develop, Test, Implement, Document and O&M of Financial Software System.** Before joining Booz, Allen, Mr. Smith was the technical lead and local

domain expert on the payment portion of a Budgetary Accounting System (BAS). BAS is a financial software database application that tracks and pays out funds to government contracts. It also maintains information about the contracts. The payments portion of BAS is specifically involved with the inventory and payment of funds to contracts. Mr. Smith was involved with the entire application life-cycle from requirements analysis through testing, including documentation. He acted as the point-of-contact for the customer and presented BAS Payments at reviews. Mr. Smith was also involved with database as well as software design of the system. BAS was developed in Objective-C on NeXT computers using object-oriented techniques and interacting with a SYBASE database.

- **Technical Lead--Analyze, Develop, Test, Implement, Document and O&M of Contracts Payment Software System.** Mr. Smith was the technical lead on the Contract Payments (CP) project which was the precursor to the payments portion of the BAS application. He was involved with the entire application life-cycle from requirements analysis through testing and post-delivery on-site maintenance, as well as documentation. CP was developed using WingZ's screens and hyperscript language on Apples, PCs running Windows, and PCs running SCO UNIX, using object-oriented techniques and interacting with an Informix database. Mr. Smith also developed, maintained, and used an internal configuration management system to record and track DRs and software releases of CP. During this period, he mentored three co-workers in areas ranging from designing and programming style to general work issues.

- **Design and Manage to Ensure Compatibility Across Platforms.** Mr. Smith designed and coded the basis of a hypertext/document-management system to link various test, graphics, and sound documents together as well as keep track of changes and affected documents to be run on various platforms (NeXT, DEC, SUN, WANG, MAC) using transportable code ("C", X-Windows). Mr. Smith also built platform-independent TIFF-reading and displaying software. He demonstrated intermixing of text and graphics, with the results displayed on a variety of workstations over local and wide area networks.

- **Knowledge Management and Decision Analysis Software Development, Test and Implementation.** Earlier for technical programs team, Mr. Smith assisted in the translation of RumRunner software system from LISP on the Symbolics computer to ADA on a PC. RumRunner was an artificial intelligence application that dealt with reasoning with uncertainty. Later, he was the sole programmer in this translation effort and in the process developed a library of LISP-like ADA routines. Mr. Smith also wrote programming index and cross-reference routines to help maintain, document, and debug LISP programs. In addition, he was in charge of on-site maintenance of Symbolic computers. While on this team, he attended a course in neural networks and later got an HNC neural network up and running on a Compaq 386 PC. Mr. Smith programmed, tested, ran, and demonstrated the neural network for an image compression study, including metric analysis, and explored some image recognition applications of the network. In the process, he developed color graphic routines for the PC. All this was done in the "C", UISL languages.

- **Designed/Implemented Compatibility for Suite of Critical Intelligence Community Software Tools.** Mr. Smith also designed, developed, tested, and demonstrated the Satellite Analysis Toolkit (SAT), a prototype system consisting of several software tools for interactively analyzing, classifying, storing, and graphically displaying satellite information,

consisting of satellite, NORAD element-sets, ground stations, and satellite classifications. SAT included bi-directional communication between LISP and FORTRAN routines, easy high-level man-machine interface and graphics, object-oriented programming techniques, full mouse sensitivity, a satellite maneuver predictor, ephemeris generator, zoomable work map with ground track display and simultaneous orbital parameter plots. SAT was written in LISP and FORTRAN on a Symbolics 3620 and a VAX.

- Previously, Mr. Smith designed, developed, tested, and documented a Risk Analysis Program (RAP), an interface project management tool prototype composed of production and interface rules and procedures to determine project risk and relative criticality.

- **Real-Time Intelligence System Design.** As a major developer on the Command and Control Decision-Level Interface (C2DLI) project, Mr. Smith developed, tested, documented, and demonstrated C2DLI, an automated rapid-prototype real-time interactive graphical satellite command and control expert system. C2DLI was written using object-oriented design and programming using LISP, and Automated Reasoning Tool (ART) inferencing rules on a Symbolics 3670 with color monitor. C2DLI planned a timeline of activities; resolved activity scheduling conflicts; displayed and updated this timeline in real-time with interactive color graphics; executed timeline activities according to its planned schedule; monitored, displayed, and updated hardware subsystems and their components in real-time using interactive graphics; signaled the operator of an activity or hardware anomaly with probable cause and resolution, including automatic resolution, if possible, unless operator intervened; allowed operator intervention and override at any time. As a following-up project, Mr. Smith designed and documented a subset of C2DLI toward an actual contract, in setting up an AI workstations tailored toward a specific customer needs.