

Bob Sterrett
Problem Solver, Architect
Software/Application Developer
Design, Build, Integrate
WEB, Client-Server, Cross-Platform

[Skills/Expertise:](#)

Moved to Kentukiana (11/20/2011). The novares.com domain was sold to the Cicero Group.
Linked content is being re-established at bobsterrett.com.

Recently (Sept 2012) loaded vs2012. Currently coming up to speed with net 4.5, c# 5.0, MVC 4.0, and SQL2012.
With a Microsoft Open License and an on-site server, telecommuting and remoting are easily supported.

Professional Experience:

Consulting April 1999-Present

Americans for Democratic Action, Arlington County, VA, Bearing Point, Customs, Dayton Power & Light, Global Y2k Consortium, Intl. Boundary Commission, Dept. of State, EDS/Customs, FDA, FDIC, IntoTheNet.com, Premier Inc., Trust Building Associates, Universal Services and Assistance Corp, Mid-Atlantic Group Psychotherapy Society, USAID

Foreign Service Institute, Dept of State (Dec 2006 – Present) Enterprise Reports Menu. Linking over 200 Crystal Reports to a user-friendly, administrator-controlled interface (report [sample](#)).

Converted legacy language class scheduling system to a web application. The current client-server application was moved to the web (about 200 visible and support pages, many Crystal Reports). Complex page design proved a challenge. More WEB2.0 than .net2.0, the system fulfills the mandate of “as little change as possible”. VS2005/2008(VB) and SQL Server 2000/2005 were used. ([screen shot](#)). As State has gradually embraced .net 2.0+ and AJAX, this application has become more .net centric.

Post Language Program – PDF report generation, screen design and development for a department-wide program (much like a grant application) where posts request in situ language training assistance, are reviewed and awarded funding. The large amounts of text to be processed required a custom reporting solution. iTextSharp was used. This project used lots of AJAX and a lot of javascript including JQuery to enhance the user experience.

Receivables tracking for the Institute. – Weekly summaries were obtained from the Charleston, SC finance center. Displays and reporting were aimed at reducing interest and penalties on overdue payments. This project used iTextSharp for user-defined reports and charts and line drawings were done using VML (Vector markup Language). [More ..](#)

Support for Budget Tracker, the allocation and tracking system for the Language School’s budgeting, allocation and tracking for language instructors, consultants and testers.

Internal support for various other programs.

TSA STIP/TIP System. (July 2006) Had a minor role in preparing VB classes to support management of airports and screeners. Using Rockford Lhotka’s CSLA system (Component-based Scalable Logical Architecture), the emphasis is on sending serializable classes between the tiers of the system. Coded classes, business rules and validation rules. (VBNet 2005/VS2005)

CUSTOMS – Cyber Crime (ICE) (March 2006 –October 2006) – Punching up a few web pages for inventory and asset management. Legacy stuff- ASP, Oracle 10, Toad 8, cross-browser ([Firefox rant](#)).

MEDSUN – Medical Product Surveillance Network (FDA) (2004-2006) – [Integrated](#) web data collection site with legacy device tracking database (Oracle 6!, SQLServer 2000). Mostly ASP, scripting, some SQL stored procs, QC, production management.

[PlumTree Portal Gadget](#) – Bearing Point (2003-2004) – Designed and implemented a straw poll gadget for NMCI/POE-IT portal. Developed Use Case Diagrams, Use Cases, Activity Diagrams, gadget code, web

pages, database, and access components.

[Membership System](#) – ADA (1984-present) – Rewrote DOS based application (which I wrote in 1985) as a Windows and WEB app using VB6.0, [VB.Net](#), C#, ASP, [ASPx](#) and Com/DCOM. The system maintains member records, supports solicitations and member communications via mail, email and the WEB, and enables lobbying at national and grassroots levels. Implemented SharePoint Team Services for intra-office communication. Created a [SPAM filter](#) for Exchange 2000 Server. Supported are WhiteLists, BlackLists, IP Source rejection and key word filtering using regular expressions. Incoming [statistics](#) are collected. Individual items may be enabled/disabled and logged.

[Corporate Time and Attendance Worksheet](#) (CTAW) – FDIC (2001-2002) - Created a time capture tool for 6,500 desktops and detached workstations with extensive DHTML browser model interaction. Created a generalized poll module for websites. <http://www.adaction.com/test/strawpoll.asp>
Updated, maintained and extended the Small and Disadvantage Business Utilization (SADBU) web site for the Army (<http://www.sellingtoarmy.info/>) for the woman-owned 8a company with the Army contract. Added a sub-site to present forecasts of small business work for the coming year. This is an interactive site with search capabilities. On the main site, reduced maintenance by using a back-end database to eliminate 50+ static pages. Created links for the client to do direct data entry reducing transcription errors and reducing the time required to get changes implemented. Created dynamic PDF (<http://www.novares.com> (demo)) and RTF (<http://www.novares.com/sadbu/poc/pocreport/testfle.rtf> (sample)) reports.

Developed the project plan and technical approach for a system to connect a BtoB marketplace to the payment engine of a major bank. Hardware included F5's BigIP, Compaq's 8 way servers, and EMC's storage framework. Software included Windows 2000 Enterprise Server, IIS5, MSMQ, SQLServer, Visual Basic, and MTS. Prototyped the [https/XML](https://XML) interface for the front-end. <http://novares.com/xmlsend.htm>. Tested and evaluated MSMQ2.0 on Windows Advanced Server. <http://novares.com/MSMQ> (IE5 required)

Built standardized address list for Arlington County with cross-references by people and property.

Updated some files for this long-time client. <http://www.internationalboundarycommission.org/>

Developed a web monitoring system for the intelligence Power Monitoring network (<http://www.waytogo.com>). This process does end-to-end testing of the system and sends pager and email notification of failures to designated personnel. <http://novares.com/novaweb/dpl.htm>

Y2K Emergency Infrastructure Reconstitution System (USAID) –Constructed a system to fast-track Y2K problem remediation for 3rd world countries. This system matches problems with funding sources and contractors. Automated workflow with web-based interfaces, PKI signatures on forms, email notification yielded problems-to-solutions paths in as little as a week. Heavy ASP, [SQL server](#), some VB. <http://novares.com/novaweb/yeirs.htm>

Y2K preparedness and remediation for the developing world (USAID sponsored). Wrote Y2K help tools in Access that were distributed in 100+ countries. These tools support contingency planning for government entities and businesses.

Organization IDEF0 diagram — <http://www.novares.com/Globaly2k/orgdef/ofst.asp>

Download & Information page — <http://www.novares.com/Globaly2k>

Web site — <http://www.novares.com/GlobalY2K/web>

Sample Screens — <http://www.novares.com/novaweb/y2kscreens.pdf> (318k)

Modified existing membership and donor system Performed Y2K mitigation and patched legacy system until new hardware and software can be installed. Built a Windows 2000 server running Exchange 2000. Implemented Text-to-Speech support for help, error reporting and instruction over the intranet (<http://www.novares.com/test/dubyaquotes.htm> (demo)).

Created an initial web presence for a travel re-insurance company, www.universalassist.com
Converted aging Win3.11/Novell network to Win98/NT. Updated procedures for the new system.
Converted Access 2 software to Access 7.
Created a Corporate Phone Book -- www.novares.com/bscripts/corphne.asp
Created a system for On-line Survey Processing -- <http://www.novares.com/novaweb/surveyproc.htm>
Built a couple of web pages. — www.novares.com/trustbuilding

Houston Associates Consultant February 1998-April 1999

US Electronic Grants Project/National Partnership for Reinventing government – Updated the Java applet based front-end for entering grants information to the pilot database. Incorporated new screens using Swing classes, added servlet based reporting, and repackaged the project for the two major browsers (Verisign and Thawte code signing). Database connections (oracle) were through the Active Works messaging system.

Created a system for Application Integration – www.novares.com/bscripts/cie.asp – Using event brokering techniques, disparate applications are linked through JAVA wrappers and adapters. A general framework of components is being developed to support rapid connections between programs, objects, and databases on any platform that supports a virtual JAVA machine. The package contains graphical interfaces for design (Visio), deployment, and control (ASP, DHTML, VB, MTS, JAVA). The system supports demo, test, and production environments. The project combined commercial software (ActiveWorks), JAVA applets and applications, server and client side web programming (VBScript, JAVAScript), Visual Basic and MTS to produce a scalable integration environment.

Network Integration & Monitoring - Supported DARPA's Leading Edge Services (LES). Houston Associates is charged with maintaining facilities to support both classified and unclassified demonstrations of software being developed to support the War Fighter. Working as a consultant to Houston Associates the Empire SystemEdge SNMP agent software was installed on SUN and NT machines. HP's Openview, custom VB programs, and other net management tools were used to assemble and display the data from the workstations, ethernet and ATM switches, and routers to assess the suitability of current hardware for the new generation of training and planning tools. Also installed SNMP on Win95 and Win98 machines.

National Federation of Clinical Social Work Societies Consultant February 1998

Supported the national office's list processing tasks.

Mid-Atlantic Group Psychotherapy Society Consultant February 1998

Created programs and processes for Directory Publishing — ([samples](#))

LAM Enterprises Consultant Aug 1997 to January 1998

Replaced a stolen 13 giga-byte NOVELL server with an NT4 system with 18 giga-bytes of storage. Set up internal networking, an internet presence — (www.lam-ent.com) and e-mail for this South Florida military exporter. 486 workstations were updated to Pentiums. Office 97 and Internet explorer 4.01 were chosen to support LAM's data and communication requirements.

Re-wrote data systems to use Active Server Pages, allowing controlled access and update to the 10 million data records supporting LAM's clients.

Supported video conferencing internally at LAM, and between LAM and work sites in Turkey and Nicaragua using NetMeeting.

DATABASICS, Inc. Senior Systems Analyst. Dec 1995 to August 1997

WebMaster- Set up corporation's first NT server, WEB server, WEB site, mail server, and database server. Subsequently upgraded the site to NT 4.0, IIS3, and SQL 6.5. The site has been the development host and the major selling vehicle for the company's Enterprise-wide (WEB, ODBC, and mail) time and expense collection products. Used dbWeb, PERL, and Visual Basic to develop CGI interfaces. Developed animated GIF's, sound, and other elements to promote the site. Emphasis shifted to Active Server Pages, Active Documents, com and dcom interfaces to back-end databases as those technologies became available.

Supported the American Institute in Taiwan's automated accounting effort. Brought hardware (NT servers in Taiwan and Arlington, VA connected by a 56k line) and accounting software together to track the income and expenses of our embassy in Taiwan.

Maintenance and extension of the ExpenSite module using PowerBuilder and PowerSoft WEB extensions. Prepared the system for install (InstallShield) and provided customer support. Provided pre-sales and sales support and conducted demos for the TimeSite/ExpenSite systems. Developed documentation and usage instructions using Pagemaker and Adobe Acrobat.

Pre-processing of the budget for Interealty Corp. Rationalization of operating unit budgets (96 and 97) using Visual Basic coding within Excel spreadsheets. Results fed to HP-9000 based corporate accounting system.

CBMI, Inc. Systems Analyst. June 1995-Dec 1995

Designed initial model of a list management and distribution system for a major mailing house. Use cases employed for the first time.

Maintained and modified text retrieval and management system for Dept. of Education's state-level reporting system (SQLbase).

Developed Preliminary database design of a replacement system for Dept. of Education's Contractor Resource System.

Maintained and operated Kaiser Permanente's distributed At-Risk Mothers Tracking System. (SQLbase).

Maintained and extended the American Anthropological Association's FoxPro membership, subscription and meeting management system.

NOVA Research Associates. President 1984-1996, Vice-President 1980-1984.

Provided computer consulting, training, and support to a variety of clients—ADA, DCCC, US Dept. of Commerce, Planned Parenthood, US State Dept., Xerox, DC govt., GAO, etc.

Provided File Management, Database Design & Modeling, Decision Support, Marketing Information and Executive Information Systems design and development. Conducted profiling, targeting, and forecasting for direct marketing. Managed Large NOVELL server systems. Conducted workstation benchmarks and other network tests for a GAO LAN Performance study. Collected and analyzed data via NetVision and VigiLAN for several servers, multiple LAN links. Created an Advertising tracking system for small newspapers. Database publishing. Tracking system for State Dept. resettlement loans. Congressional vote tracking. FEC reporting, donor and membership list management, PAC management. Four million record parts database on an AT in 1984! Routine processing of 38 million records on tape using an AT. Immigration amnesty program. Hospital equipment inventory. Expense management for a lobbyist. DC

taxicab fare study. School lunch survey analysis. Subscription fulfillment. Preparation for submission to NGS of survey data defining the US/Canadian Border including computer generated maps. System to process business license delinquencies (Arl. Co.) Identify sales tax cheats (CA.) Daycare management (Ft. Myer.) Drug sales tracking. XENIX/SBT/FOXBASE order taking system. Fraud Prevention Department text database (KWOC). Proprietary grant application scoring program used to evaluate over 400 proposals for OJJDP in 5 separate competitions. Developed courses and conducted training in DOS and BASE . (Smithsonian, XEROX).

Dept. of Commerce. **IRM support.** November 1993. Supported 100 NTIA computer users while their regular IRM manager was on vacation. Maintenance and extension of the grants system for National Public Radio (FoxPro).

Softrac America. **Director, Client/Server Applications.** March-June 1993. Supported start-up mail-order sales firm with list management and business-to-business marketing analyses.

XCEL Computer Services. **Director Microcomputer Applications.** November 1991-October 1992. Maintained and extended a client/server decision support system for Gevalia coffee. Direct mail solutions and analysis for several Fortune 1000 companies.

Provided office support for Intl. Boundary Commission, Planned Parenthood, David Vienna and Associates, LAM Enterprises, Public Voice, etc. Newsletter setup & support.
Developed a News wire capture for Catholic newspapers. Developed and implemented a [copy protection scheme for mini-cassettes](#) on FLUKE PC analyzer. Prototyped multi-language Voice recognition using the DRAGON board.

Blackstone Data Services/Associates. President/Senior Systems Analyst, Computer Consultant. 1977-1980.

Provided data management for youth opportunity program (CETA nationwide.), training management system for Va. State Police./Sheriffs. Provided fiscal and performance management for Sports Directions Summer Youth program.

Managed and supervised several large data entry/acquisition projects providing efficient and accurate service to DC employment Commission, DC Summer Youth, Youthwork, etc.

Setup and ran NASTRAN analysis of COMSAT model 'C' earthstation. Performed trade calculations, Special Trade Rep. (OTP.) Provided analysis and table production for the 1978 WIC survey. Designed the public use file structure for the 1978 OCR survey and produced reports. Provided analysis for the ELSEGIS survey and Natl. Guard accession and continuance data (RAND.) Conducted a statistical analysis of Job Corps entrance and exit data. Evaluated future Vehicle Identification Number schemes (CA DOT.) Conducted on-line tests at the Calif. DMV. Provided cross cultural survey processing - Taiwan, Nepal, Maharastra, Gujurat, Sri Lanka, and Malaysia (World Bank.) Analysis of Navy 3M system (AMS.)

RAC/General Research Corp. Member, Technical Staff. 1973-1977

Analyzed Army accession and retention data, AFEES entrance exams, Gilbert Youth Surveys. Created a large model projecting the number of qualified military availables by county. Provided analysis and data processing for small farmers surveys - Costa Rica, Guatemala, Chile, Paraguay, and Kenya (AID.) Analyzed lending objectives and School achievement data (World Bank.) Processed Army Surgeon General alcohol abuse surveys. Forecasted via regression, auto-regressive supply functions, and biased estimators. Analysis and processing support for OSHA/BLS accident data.

Designed and supervised implementation of 16 programs for satellite circuit analysis for COMSAT.

Conducted benchmarking and cost analysis of internal procedures to support contract claims. (we forced the Army to release 2 mil).

The Hendrickson Corp. Programmer/Consultant 1969-1973

Provided data processing support, JEC, using census, public use samples. Supported the Gary Income Maintenance experiment with custom data management and statistical programs. Analyzed data from Trenton experiment. Processed Housing management surveys, (Urban Inst.) Supported women's work force analysis on-site at HEW (Marshall Wood.) Conducted a preliminary analysis of training and rifting component for MPS360 model of military manpower.

Job Corps PPBS (Fair-Isaac). Supported Input/output models of New York State (Natl. Planning Assoc.). Developed software to analyze courtship and marriage data (NIMH). Developed software to score the Medical College Aptitude test. Project management/manpower tracking. Aircraft acquisition cost model (WSAO). CAB cargo survey processing (ATA).

Systems Research Corp. Associate. 1968

Conducted gaming and threat analysis in support of the DXGN nuclear guided missile frigate ship development plan. Expected value model of helicopter losses at fortified landing zones. CPFF Time & Billing tracking.

Electron Physics Laboratory (U. of Mich.) Assistant Research Mathematician. 1966-1968

Modeled high-energy amplifiers, plasma devices, and solid-state materials. Supported PhD candidates in thesis work, doing numerical analysis and graphic displays using FORTRAN, MAD and UMAP.

Bendix Aerospace. Programmer. 1965

Simulated rocket hardware with computer models, trajectory analysis, arms control calculations, computer gaming, structural analysis of Lunar Lander, moon rover. Most work was done in FORTRAN on a Bendix G-20, later CDC G-20.

Education:

BS Rose Polytechnic Institute (Math, Physics) 1964
Math Courses University of Michigan 1966-67
Sociology Courses George Washington University 1968

Professional Skills:

- Accounting systems
- Database design, modeling, development
- Publishing, Database Publishing
- Econometric modeling
- Mathematical modeling
- Membership maintenance
- Manpower analysis & forecasting
- Simulation of physical systems
- Statistical analysis
- Survey processing

Training: two week course on Template Enterprise Integration Technology (now part of Level8's Geneva system)

- Win2000 Server, Advanced Server, NT 4.0, 3.5, OS-2
- Windows XP, 2000, 95, 98, 3.x
- UNIX SCO/Solaris
- IBM mainframes (OS, MVS), CDC Cypher, Univac
- NOVELL, LAN MANAGER
- ASP, [ASPX](#), HTML, DHTML, C, Visual C++, c#, FORTRAN, ASM, Visual BASIC, [VB.Net](#), VBscript, VBA, JAVA Servlets/Applets, JAVAScript, PL/I, PASCAL
- COM/DCOM/MTS/ActiveX/
- [dBase](#), [Visual FoxPro](#), AREV, DataFlex, [Access](#), Informix SQL, ESQ, SQL Server 2012, SQLWindows, SQLBase, Oracle, ErWin
- PC's
- SPSS, SAS
- System Integration, IP integration
- Distributed Systems, [BIZTALK](#), SOAP, [XML](#)
- Remote Scripting/[Remote Data Services](#)/
- Remoting, [Web User Controls](#). ActiveX Controls. Server side controls
- Website development, design & maintenance