

Erich Seamon

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Objective

Provide world-class technology implementation and design services to private and public organizations.

Summary

- Fifteen years of experience in developing and implementing advanced geospatial technology systems;
- Focused experience managing technology efforts for government, with a particular focus on taxation, assessment, public works, and utility system design, implementation and management;
- Well versed in large and complex technology implementation projects (+20M) – for both private and public consumption. Experienced in ensuring success from technical, financial, and organizational perspectives.

Education

M.S. – Geosciences. Bowling Green State University, Bowling Green, OH. - 1994.

B.A. – Geosciences. Wittenberg University, Springfield, OH. - 1991.

Certifications

Project Management Professional (PMP) 2008

Geographic Information Systems Professional (GISP) 2007

Information Technology Infrastructure Library (ITIL) Foundation Certified 2008

Professional Experience

11/2005 – Present. Principal, Erich Seamon and Associates. ESA's focus is on applying the use of advanced technology systems to make organizations successful – in multiple capacities. Core areas of focus include; Enterprise GIS development, GIS assessment and strategic planning, governmental systems architectural and life/cycle business development, water utility systems development, management, and assessment. Recent areas of effort include social services analysis and GIS (Portland, OR), enterprise GIS assessment (New Orleans – City of New Orleans, LA), and political campaign mapping for state and national party efforts.

12/2000 – 11/2005. Geographic Information Officer, City & County of San Francisco. San Francisco, CA. as a senior technology manager for CCSF/DTIS, my role was to manage and serve as technical lead and project manager for several business systems – in the capacity of DTIS's role as a citywide technology consultancy. Specific examples of such work include capital improvement (PUC, DPW), property/real estate analysis (Assessor/Recorder), integration of tax information with spatial data (Treasurer/Tax Collector), as well as close work with many city departments (Parks & Recreation, Police, Fire, Emergency Services, Municipal Railway, etc.) in the areas of technology procurement, resource management, systems evaluation, and inventory analysis. Examples of existing application developed for CCSF:

- SFProspector (<http://www.sfprospector.org>) – an interactive mapping application for economic development;
- CrimeMAPS (<http://www.sfgov.org/crimemaps>) – a public map viewer for examining crime in SF;
- SF Find – (<http://www.sfgov.org/sffind>) - SF's general purpose map viewer – allowing citizens to get service info in a variety of ways;
- SFViewer – (<http://gispubweb.sfgov.org/website/sfviewer>) - an overall internet mapping application for San Francisco, as well as;
- SFParcel – (<http://gispubweb.sfgov.org/website/sfparcel>) - San Francisco's first parcel mapping application.

5/1997 – 12/2000 GIS Manager, Marin Municipal Water District. Corte Madera, CA. As the manager of all GIS activities at Marin County's primary water utility, my focus was on four major areas: 1) Development and management of MMWD's advanced infrastructure and natural resources technology systems. 2) Serve as the

political/technical representative for MMWD's technology efforts, as it relates to working with several multi-agency consortiums (Marin Telecommunications Agency). 3) Oversight of MMWD's technical architecture. These duties entail providing oversight for all UNIX/Windows systems, and their interactions with other legacy applications (Informix 7.2.1, Informix Spatial Data Blade). 4) Serve as the coordinator for all natural resource GIS development. This work entailed coordination and development of all GIS applications as they relate to projects such as fire modeling, sediment streambed monitoring, soil erosion analysis, and watershed modeling.

12/1996 - 05/1997 Senior Analyst, Jacobs Engineering Group, Sacramento, CA. As an environmental analyst, my main duties were to manage an advanced Oracle databases, as well as to utilize UNIX systems to develop modeling processes regarding contaminant analysis. Additionally, I utilized collected field data regarding groundwater and surficial sampling methods, and incorporated data into working three-dimensional models. Served as lead on many projects, which ranged from contaminant analysis to cleanup missions, with much of this work involving daily technical issues in integrating complex Oracle datasets with ARC/INFO and Arcview. Contractual work was performed on major Army and Air Force bases throughout California, Nevada, and Hawaii.

08/1993 - 10/1996 Senior Applications Analyst, Northern Kentucky Area Planning Commission. Cincinnati/Northern KY Metro area. Daily activities included technology work on UNIX workstations, in support of the Commission's role as the primary planning organization for the tri-county area. Specific applications used were ARC/INFO v. 7.0.4, Arcview 2.1-2.6, ERDAS Imagine, as well as Oracle, Dbase, and Informix relational databases. Due to the NKAPC's efforts to provide services to many public and private agencies (Kenton Co. Public Works, Boone, Kenton and Campbell Co. Property Administrators, etc), projects ranged from soil erosion and runoff predictability/watershed modeling, land use suitability, groundwater hydrology simulation applications, to transportation/network modeling and parcel management. Daily activities included system administration, internal model planning and conceptual development, essential ARC/INFO manipulation, map and poster production, as well as AML, SML, and Avenue script writing. In 1995 the NKAPC was awarded ESRI's Outstanding Government in GIS award.

05/1992 - 05/1993 Research Associate, Bowling Green State University. Conducted field and laboratory work pertaining to watershed analysis for thesis, as well as serve on several research teams involved in utilizing GIS for complex analysis.

08/1991 - 05/1992 Teaching Associate, Bowling Green State University. Taught laboratory sections of introductory physical geology and introductory GIS.

Management & Leadership

- Provided technology leadership within CCSF's Dept. of Telecommunications and Information Services (DTIS)
- Supported 61 city departments (employee base of 25,000) with Enterprise GIS services (<http://www.sfgov.org/gis>).
- Chief liaison for all geospatial information for City and County of San Francisco – local, national, and international.
- Extensive project management experience;
- Routinely provided recommendations to executive staff (Mayor, CIO) on geospatial issues.
- Experienced in managing contractual aspects of GIS and IT: maintenance contracts, PO distribution, and working with consultants to accomplish tasks in a timely fashion, under budget.
- Well-developed technology contacts within the academic, governmental, and industrial communities.
- Managed several long term complex technology projects – including: Fire Modeling, in coordination with Marin County Fire; Parcel/Service Meter relationship development; Erosion /sedimentation modeling for the Mill Valley Watershed; Parcel/Public works technology application development: facilities maintenance, parcel analysis, and ERP/data warehouse integration.

Technology Experience and Skills:

- Experienced in theoretical and conceptual IT architectural design – esp. for large implementations.
- Well versed in all flavors of operating systems/hardware related to large-scale technology development (data marts, redundant, replicated three-tier application environments).
- Secure Intranet/Internet application development'

- Experienced in developing and exposing geographic information via web/map services (ESRI, OGC-compliant WMS and WFS services).
- 10 years of UNIX admin experience, focusing on a multi-user environment (100+ users). Certified Solaris Systems Administrator.
- Experienced software development: Python, Visual Basic .NET, C++, Java scripting.
- Over 15 years of extensive experience with all forms of Geographic Information Systems software, including ARC/INFO, Arcview, ArcGIS (ArcIMS, ArcSDE), ERDAS, AutoCAD, and GRASS. Additional experience with TKL/TK development, Python, and Shell (C, Bourne) scripting.
- Database experience: Extremely well versed in SQL scripting using Oracle, DB2, SQL Server. Strong database development and modeling, as well as UML design experience (Visio).
- Experienced in the day to day management and quality control of technology systems, including data management, backup, disaster recovery/business continuity, code management, and system/application security.

Memberships

- Geological Society of America (GSA)
- Urban/Regional Information Systems Association (URISA)
- American Association of Geographers (AAG)
- American Geographic Society (AGS)
- Geospatial Information Technology Association (GITA)
- USENIX/SAGE (System Administrator's Guild)
- American Geophysical Union (AGU)
- American Water Resources Association (AWRA)
- Bay Area Automated Mapping Association (BAAMA)
- Project Management Institute (PMI)

Grants

- 1.5M Department of Justice, Office of Community Policing Grant, 2002. Principal Investigator/Grant Author for federal grant to develop full-scale Police GIS system for crime analysis – based on NYC's COMSTAT model. Grant coordinated thru Mayor's Office of Criminal Justice (MCJC).
- \$100,000 National Spatial Data Infrastructure (NSDI) Framework Grant, 1998. Co-Principal. Presented to MarinMAP, a joint powers authority (JPA) formed in Marin County to integrate spatial technology.
- \$43,000 Environmental Systems Research Institute (ESRI) Government Start-up Grant, 1998. Principal.

Publications

J.E. Evans, D.E. Seamon 1997 A GIS Model to Calculate Sediment Yields from a Small Rural Watershed, Old Woman Creek, Erie and Huron Counties, Ohio. Ohio Journal of Science vol. 97 (3): 44-52, 1997. Ohio Journal of Science Paper of the Year, 1998.

D.E. Seamon 2000 Water Management in Marin County, CA; Development and Implementation of a Complex Water Utility GIS to Manage Both Infrastructure and Natural Resources. 2000 Environmental Systems Research Institute (ESRI) Conference Proceedings, San Diego, CA. (In press) (www.erichseamon.com/docs)

Recent Presentations

E. Seamon, 2006. ESRI users conference 2006. "Understanding Adolescent Behavior with GIS – a case study: Portland, OR." San Diego Convention Center, San Diego, CA August 2006.

E. Seamon, M. Gartstein, T. Dishon, 2006. "Explaining neighborhood correlates of adolescent conduct problems in the Portland, Oregon metropolitan area: the geo-spatial perspective" Santa Fe, NM April, 2006.

E. Seamon, 2005. "[Security, Privacy and GIS: Changing Perspectives in a Changing World](#)" ESRI users conference. San Diego Convention Center, San Diego, CA. July, 2005.

E. Seamon 2005 "[Implementing Enterprise GIS in San Francisco](#)" 2005 American Planning Association National Conference, March 21-25, San Francisco, CA.

- E. Seamon 2005 ["Managing geographic information nationally: strategies for GIS governance"](#) California GIS conference, Bakersfield, CA March 16-18, 2005.
- E. Seamon, 2005. ["SF Enterprise GIS: interactions and uses of geospatial databases"](#) Northern California URISA presentation - February 9, 2005 - Sacramento, CA.
- E. Seamon, 2004. ["Building a Successful Enterprise GIS in San Francisco, CA"](#) ESRI Users's Conference 2004 - San Diego, CA.
- E. Seamon, 2004. ["Fighting Crime in the 21st Century: Developing CrimeMAPS, SF's first dynamic crime analysis system"](#) National Institute of Justice (NIJ) Seventh Annual Crime Mapping Conference, Boston, MA 2004.
- E. Seamon, 2001. ["GIS Strategies for the City and County of San Francisco, 2001"](#)
- E. Seamon, 2000. ["Water Management in Marin County, California: Development and Implementation of a Complex Water Utility GIS to Manage Both Infrastructure and Natural Resources."](#) ESRI Users Conference, 2000.
- E. Seamon, 1999. ["Hydrological Modeling and the use of GIS as a predictive tool in environmental management"](#) Northern Kentucky Area Planning Commission, KY.