

Kevin P. McNamara
Senior GIS Software Engineer

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OBJECTIVE

Utilize my extensive skills in GIS software and database engineering to meet and exceed the business needs of my employers and clients.

SUMMARY

Over twelve years experience in the design, implementation, and support of large-scale information systems for electric, gas, and telecommunications corporations.

Thorough knowledge of objected-oriented principles. Experience in data and object modeling using ER and class diagrams. Proficient in relational database design and maintenance. Extensive experience with software development lifecycles, use case/requirements gathering, software and data QA, defect tracking and debugging, data analysis, and support of critical real-time production software applications. Extensive onsite experience at utilities around the U.S. in support of production Smallworld GIS installations and installations of ESRI software. Extensive knowledge of spatial analysis related to environmental, real estate and utility fields using ESRI, Idrisi, and GRASS GIS platforms.

Languages: Magik, VB, Perl, C/C++, UNIX shell, PL/SQL, XML, HTML, UML, Java

Configuration Mgt. (SCM): StarTeam, PVCS, VSS, ClearCase, UNIX SCCS, Subversion

Operating Systems: UNIX (Solaris, HP, AIX, Linux), Windows (9x, NT, 2000, XP), DOS

EDI/EAI/Middleware: CORBA, Orbix, Vitria **Modeling Tools:** ERwin, Visio, Smallworld Case

Databases: Smallworld VMDS, Oracle, SQL Server, Access **Editors/IDEs:** Emacs, vi, Visual Studio

WORK/CLIENT HISTORY

Spatial Business Systems, Lakewood, Colorado

2007-Present

Senior GIS Consultant

- Develop Magik/XML application to support mobile deployment of PowerOn data to field crews for Vectren Corporation.
- Develop interface for Vectren integrating Design Manager and IBM Maximo using Java, XML and Oracle to transfer data between the two systems.
- Upgrade Compatible Unit (CU) data model and application from Design Manager 4.1 to enable hierarchical grouping of CUs into Macro Assemblies.
- Upgrade Vectren's Smallworld 4.1 data model to meet their changing business needs and integrate with new CU application.

Terragraphics Environmental Engineering, Kellogg, Idaho

2007-Present

GIS Database Consultant

- Assisted in development of CWE databases and tools to automate entry, analysis and quality control of CWE data stored in ESRI geodatabases.
- Performed separate analyses of hydrologic data in ArcGIS to test performance of automations; utilized custom McNamara Consulting application (diffTrack) to compare results between automation and manual analyses.

Accenture/ABSU, Vancouver, Canada

2006

GIS Consultant

- Designed and developed Oracle schema, SQL, and Smallworld Magik application for EGD Address Correlation application. This application enables automated update of Smallworld premise information for 2 million EGD gas customers utilizing mapping algorithms to match address data provided by a third party vendors.
- Developed Database Consolidation application to combine 22 million records across six databases and projections into a single unified Smallworld database and map projection.

Consolidation completed with 99.99%+ success rate for translated data. Projected to save EGD tens of thousands of dollars each year in maintenance and development costs.

CSC/IBM CINERGY/DUKE, Plainfield, Indiana **2004 - 2006**
Smallworld Consultant.

- Developed Gas Isolation Section tracing application in Magik utilizing Smallworld's Network Follower and spatial query functionality.
- Assisted in development of a Magik application to automate creation of structure nodes for CWIM electric jobs based on a matrix of spatial and object-specific placement criteria to improve accuracy of regulatory reports on the electric network.

GE NETWORK SOLUTIONS (GENS), Englewood, Colorado **2001 - 2003**
Smallworld Consultant

- Served as technical support lead managing the efforts of a development team providing support and maintenance of Design Manager releases in production around the world.
- Debug and resolve critical Design Manager issues. Created patches to deliver 90%+ performance improvement on commonly used Design manager functionality.

TELCORDIA TECHNOLOGIES, Piscataway, NJ **2000 - 2001**
Senior Software Engineer

- Development team member on three releases of POG (Pre-Order Gateway), a distributed EDI C/C++ application integrated through CORBA/Orbix, running on AIX UNIX, providing CLECs with a single convenient interface to query multiple ILEC mainframe databases.
- Developed UNIX ksh and Perl QA scripts to detect discrepancies between Verizon's mainframe SWITCH dB, NCON Oracle dB, and real-time query of DSLAM equipment.

ADVANCED TECHNOLOGY SOLUTIONS, Broomfield, CO & Red Bank, NJ **1998 - 2000**
Technical Consultant

- Created Magik application to copy complex inside plant data between databases.
- Developed QA programs using Magik, VB and PL/SQL to validate the integrity of GIS data.

GEODATA SOLUTIONS, Westminster, CO **1998**
GIS Consultant

- Assisted in implementation of large-scale GIS at Duke Energy Corporation.
- Developed a multi-purpose gas, electric, and road trace module in Magik interfacing with the core technology of Smallworld Network Follower to analyze spatial networks.

PLANGRAPHICS, Golden, CO **1996 - 1998**
Systems Analyst

- Assisted in development of work order processing, accounting and workflow management applications for Niagara Mohawk Power Corporation.
- Developed Magik applications leveraging core Smallworld ACE, CASE and Style System functionality to survey and maintain the gas network, using PVCS for SCM.

EDUCATION

- **M.A. Geography/ Water Resources**, University of Wyoming, 1996 **G.P.A.: 3.93**
 - Master's Thesis 'The Effects of Landscape Variables on Headwater Drainage Development: Medicine Bow Mountains Wyoming'.
 - Evaluate the effects of vegetation and gradient on first-order watersheds.
 - Survey zones of channel initiation (latitudinal and longitudinal elevation profiles) in each watershed, using both GPS and conventional surveying.
 - Analyze field-delineated drainage network using ArcInfo to determine ability to determine drainage network using maps of topography and vegetation.
- **B.A. Geography**, State University of New York at Plattsburgh, 1992

References available upon request.

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