

Benjamin S. Ferguson

SUMMARY OF EXPERIENCE

2004 – Present	Principal, Ferguson-Jenkins & Associates, Inc. - Frankfort, Kentucky
1999 - 2004	Sr. GIS Analyst, Bluegrass GIS, Inc., Frankfort, Kentucky
1993 - 1999	System Analyst, City of Coon Rapids, Coon Rapids, Minnesota
1991 - 1993	Network Administrator, Braun Intertec, Minneapolis, Minnesota
1988 - 1991	Project Engineer / Lab Manager / CAD Manager, Braun Intertec, Minneapolis, Minnesota
1987 - 1988	Senior Staff Engineer, Ninyo and Moore, San Diego, California
1986	B.S. Civil Engineering, Arizona State University

DETAILS OF PROFESSIONAL EXPERIENCE

Principal

Ferguson-Jenkins & Associates, Inc., Frankfort, Kentucky

Co-founded FJ&A in 2004. Responsible for all aspects of GIS consulting for clients including application development and database design specializing in ESRI's ArcGIS products.

Sr. GIS Analyst

Bluegrass GIS, Inc., Frankfort, Kentucky

1999 – 2004

Responsible for technical aspects of GIS implementation including implementation planning, system and database design, data conversion, database quality control, system administration, database administration, training, application development, and technical support. Past and present clients include:

Nashville Electric Service (NES): 1999 – Present

Served as project manager and as the team leader for application development using Microsoft Visual Studio, ArcObjects and COM, including both a complex geodatabase maintenance application and an electric distribution circuit analysis application. Participated in the NES ArcGIS geodatabase design effort and provided data conversion and geodatabase loading application development to support the migration of the NES GIS from ArcInfo 7.2.1 with all GIS data housed within ArcStorm to ArcGIS 8.x and ArcSDE housed within an Oracle 8.1.6 database. Responsible for design, prototyping, and development of the Geodatabase Maintenance Application, an electric Circuit Mapping application, ArcView 3.x Avenue application development to support the inventory of the NES fiber optic network, end user technical support, and training.

U.S. Army, Fort McCoy, Indiana: 2004 (Subcontractor)

Project manager migrating their ArcView 3 avenue applications and shapefile data to ArcGIS 8 application and personal geodatabase. The geodatabase was built conforming to SDSFIE standards. The applications were in support of the planning, Civil Engineering, and Fire Departments.

**System Analyst
City of Coon Rapids,
Coon Rapids, Minnesota
1993 – 1999**

Responsibilities included the design, implementation and maintenance of a citywide geographic information system (GIS). The GIS was integrated into the City's overall information system with a client/server system. Hardware included SUN workstations, Windows NT, Novell file servers, and personal computers. Software included Oracle RDBMS, ArcInfo, ArcView, ArcStorm, SDE, ArcFM, AutoCAD, Land Development Desktop, NetWare 4, Windows 95 and Windows NT (workstation and server). This system was used by City departments for analysis and mapping for assessments, utility management, zoning changes, wetland and environmental studies, and crime and accident analysis. Developed departmental applications and provided training. Application programming consisted of AML, Avenue, PowerBuilder, and Visual Basic programming of departmental and citywide applications. Performed budgeting and planning for the GIS activity and for all Engineering computer needs. Also performed GIS staff supervision.

Significant projects included the implementation of a combined ArcFM/Work Order system for the Public Works Department using SDE 3.x and Oracle, ArcFM, and ArcInfo for infrastructure management, and Azteca CityWorks for the Work Order system to create an integrated solution. As a part of this work, oversaw the collection of GPS coordinates of the City's infrastructure and coordinated the survey/technician team rebuilding the City's parcel map with COGO to increase the accuracy of the City information.

Also developed an easy to use citywide parcel information program using Visual Basic, MapObjects, and Oracle software.

Provided assistance with networking needs and maintenance of the city's LAN/WAN (Novell/NT/UNIX). Created the City's web site and supervised the technical maintenance of the site.

Implemented the Engineering Department's CAD system (AutoCAD and Land Development Desktop), and provided backup for the City's Water Control system (SCADA). Served as City representative and board member to the Lower Rum River Watershed Management Organization (WMO) and the Six Cities WMO, two local water management organizations mandated by Minnesota law to manage watershed districts. Member of a technical team with the MetroGIS, a regional effort to establish an organization to cooperatively share GIS data within the Twin Cities Metro Area. Also, involved in establishing a GIS user group within Anoka County.

**Network Administrator
Braun Intertec, Minneapolis, Minnesota
1991 – 1993**

Major responsibilities included the development and maintenance of part of a network that linked several locations, several servers including Novell, Unix, and VAX, and over 300 personal computers. Experienced in network installation and management, PC and Unix troubleshooting, and software installation and support.

Served as a member of a GIS committee to study the feasibility of using GIS at Braun Intertec, a year long effort which involved a needs assessment, market opportunities, and vendor selection.

**Project Engineer / Lab Manager / CAD Manager
Braun Intertec, Minneapolis, Minnesota
1988 - 1991**

Duties as a Project Engineer included performing field investigations, construction testing, budgeting, proposal and report writing, and engineering analysis.

Duties as a Laboratory Manager included supervision of up to five technicians, directing the work flow, marketing, purchasing, and overall development of the Geotechnical Lab. In the lab, various soils tests were performed for projects such as landfills, pipelines, roadways, and structures.

In 1989, Mr. Ferguson began the engineering division's CAD services using AutoCAD in a PC and Unix environment, and supervised one technician.

Senior Staff Engineer
Ninyo and Moore, San Diego, California
1987 - 1988

Managed small projects and participated as a team member on several large projects. Main duties included investigations, testing and inspections, and preparation of proposals and reports.

TECHNICAL EXPERIENCE

Continuing Education:

Visual Basic .NET
Advanced ArcObjects Component Development with VB
Programming ARC/Info with VBA
SDE Administration
ArcView
Customizing ArcView with Avenue
Introduction to ArcInfo
C Programming
Introduction to Oracle
Oracle Database Administration I
Windows 95 Support
NT Server and Workstation Administration
NetWare Administration
NetWare 4 Support
TCP/IP

Computer Skills:

Experienced in UNIX (Solaris, AIX, Digital), Windows, and Novell administration, installation, integration and maintenance, as well as LAN/WAN Networking and Internet development. Knowledgeable in all ESRI products including ArcGIS, ArcMap, ArcEditor, ArcView, ArcIMS, ArcSDE, ArcFM, ArcPad, and ArcObjects, as well as Oracle, AutoCAD, CityWorks, and numerous Windows-based software packages. Programming experience includes the languages of Visual Basic, Visual Basic.NET, C++, XML, AML, Avenue, PowerBuilder and Fortran, with substantial experience with ArcObjects, COM, and Object Oriented Programming (OOP).

Academic and Professional Accomplishments:

B.S. Civil Engineering, Arizona State University, 1986.

Member, MetroGIS Data Access Committee, Twin Cities, MN, 1997, 1998

Treasurer, Lower Rum River Watershed Management Organization, MN, 1993-1999

Vice President, Six Cities Watershed Management Organization, MN, 1993-1999

Nashville Electric Service's ArcGIS Implementation, 2002 ESRI International User Conference, 2002, San Diego, CA

Nashville Electric Service's ArcGIS Implementation, Kentucky GIS Conference, 2002, Ft. Mitchell, KY

GIS at NES: An Overview, Middle 2nd Annual Middle Tennessee Forum on Geographic Information Systems, 2003, Nashville, TN