Andrew E. Zaletel, GISP

Geospatial Operations

EDUCATION

M.S., Resource Analysis and GIS, Saint Mary's University of Minnesota, 2000

B.S., Biology (Ecology), Winona State University, 1999

Joined Firm in 2005

Years of Experience: 26

CERTIFICATIONS

Geographic Information Systems Professional (GISP), GIS Certification Institute

RELEVANT COURSEWORK

"GIS Theory and Application"
"GIS Analysis"
"Advanced GIS"
"Advanced Arcview"
"Visual Basic Programming"
"Avenue Programming"
"Satellite Imagery/Photo Interpretation"
"Fundamentals of Resource Analysis"
"Access and SQL"
"Statistical Analysis"
"Spatial Data Methodology"

Andy has served as Project Manager for numerous custom application development, utility mapping, data collection and basemap development projects. He has been instrumental in assisting communities with data analysis and conversion, custom application development, web-based GIS solutions, infrastructure system surveys, and educational workshop presentations and trainings.

REPRESENTATIVE PROJECTS

Lake County Department of Transportation, IL
GIS Data Collection Project
Project Manager responsible for design and implementation of the GPS data and GIS processing of the County's storm sewer system. Performed GPS data download and processing for upload into an ESRI Personal Geodatabase. Managed the assembling of storm mains to include the attribute data associated with the pipes. Utilized advanced tools in processing data with the Geodatabase to allow the County network trace and flow direction analysis capabilities. Provided digital photos of outfall structures linked to the corresponding structure in GIS. Managed GIS data processing and quality control to ensure project completeness and accuracy.

Crystal Lake, IL
Traffic Sign Inventory
Project Manager for development of a thorough traffic sign inventory, allowing the City to comply with retro-reflectivity requirements, and providing a valuable tool for asset management. Staff used state-of-the-art GPS units to collect the accurate location, detailed attributes, and photo of each City-owned sign. Additionally, these signs were inspected for daytime and nighttime visibility conditions. Signs not passing inspection were recommended for replacement.

Crystal Lake, IL
Master Address Repository
Project Manager for development of a Master Address Repository to provide an accurate and uniform inventory of addresses for the City, enhancing data standardization for emergency response and municipal mailings. Baxter & Woodman's staff members utilized a variety of resources to compile addressing information and conducted fieldwork to supplement the workflow.

Berkeley, IL
GIS Implementation and Development
Project Manager for the Village-wide GIS base development, storm sewer system development, zoning classification GIS development, address map GIS development, and water and sanitary sewer system map digitization.

McHenry County Division of Transportation, IL
Roadway Asset Pavement Management
The project involved a multi-task approach to the collection, analysis of data, and roadway asset management services for McHenry County. A semi-automated video pavement distress survey was performed on the McHenry County network of

ASSOCIATIONS

Urban and Regional Information Systems Association

Illinois Geographical Information Systems Association

COURSE INSTRUCTOR

Introduction to GIS, College of Lake County

GPS Technologies, College of Lake County

roadways using a digital survey vehicle (DSV). The images and data were viewed, processed, and input into the CartêGraph suite of software.

Bartlett, IL

GIS Master Plan and Pilot Project

Developed a Geographic Information System (GIS) Master Plan and Pilot Project to assist the Village in creating the foundation for a functional GIS. Developed and prepared a GIS needs assessment, GIS conceptual design, and GIS implementation plan. Established an internet-based pilot project incorporating County data and Village-specific data layers.

Crystal Lake, IL

Northwest Area Trunk Sewer

Project Manager for GIS component of the Northwest Area Trunk Sewer project which consisted of planning, design, and bidding assistance to provide wastewater collection and conveyance for the northwest area of the City. The project included a regional sewage pumping station with a sewage force main and a gravity trunk sewer extending to Wastewater Treatment Plant No. 2. Additionally, the project included the reconfiguration of the stormwater detention basin on Lake Street near Nash Road, and the replacement of the basin outlet sewer.

Illinois Department of Transportation

PTB 170/03 Phase II Various Projects, Various Routes, Various Counties, Region One/District One

Baxter & Woodman assisted IDOT under a Work Order contract with Phase II engineering services as required for plan preparation, plan review, and route surveying on various projects in District 1.

Work Orders 4/7/9 Pedestrian Ramp ADA Assessment

Andy provided mobile application and data review for condition assessments of more than 2,250 pedestrian ramps along various routes and locations within Northern Illinois for compliance with ADA requirements. A GIS Collector application allowed 12 staff members to coordinate assessment and documentation activities with each other in real time. The data was collected in an exportable, IDOT-approved schema. Photos of each ramp were taken for inclusion with the condition records. The survey was completed in two weeks.

Lombard, IL

Olde Towne East Phase III/ Olde Towne East Phase IV/St. Charles Road LAPP Improvements/Main Street LAPP Improvements

Integration of GPS-collected data into the Village's GIS system. Project included installation of water mains, fire hydrants, storm sewers, and street lighting, as well as sanitary sewer repair, sidewalk and driveway apron replacement, and full reconstruction of pavement with curb and gutter.

Lombard, IL

Utility GIS Mapping and Implementation

Project Advisor for identification of attribute information for water, wastewater, and stormwater pumping stations. Future efforts may include development of an asset management system integrated with the Village's GIS.