

EDUCATION

MA Geographic Information Systems and International Development 1998

Clark University, Worcester, Massachusetts

BS Cartography and Geographic Information Systems 1997

Salem State University, Salem, Massachusetts

CERTIFICATIONS

Certified GIS Professional (GISP) 2004, renewed 2009

GIS Certification Institute, Park Ridge, Illinois

Certified CAMEO_{fm} Instructor 2003

United States Environmental Protection Agency

Introduction to the Incident Command System ICS 100

United States Dept. of Homeland Security – FEMA

National Incident Management System (NIMS) an Introduction IS 700

United States Dept. of Homeland Security - FEMA

QUALIFIED BY

- Knowledge of Desktop ArcGIS, ArcIMS, ArcSDE (MSSQL2005), RTK GPS and Total Station field surveying, Photoshop CS5, Microsoft Office, Windows 7/Vista/XP/2000/95/NT, Macintosh.
- Competency with technical presentations to the public.
- Study of Geographic Information Systems, Digital Image Processing, Computer Cartography, Remote Sensing, Geodesy, RTK GPS, Air Photo Interpretation, Conservation Geography, Physics and Multivariate Statistics.

WORK EXPERIENCE

Town of Natick, MA, Department of Public Works GIS Division - population 30,000

GIS Coordinator/Information Management

2009-present

- Professional and technical work in the office and field in connection with assisting the GIS/Water Treatment Plant Supervisor in the daily operation of the Town of Natick Geographic Information System (GIS); computer aided design systems (CAD); supervisory control and data acquisition systems (SCADA); water data analyst; and maintenance of the network and information systems for the Department of Public Works.
 - Assist in maintaining the Department of Public Works network server including implementing new hardware and software, adding/deleting/changing users, protecting and backing-up user and department data, wiring and setting up new users, expanding the network where needed, retaining security and protecting user files, and setting up e-mail and internet accounts.
 - Operates and maintain the Town of Natick GIS; Continually update and expand the Town of Natick GIS. Coordinate and respond to all requests and work requested by various Town Departments and the general public. Work to resolve problems from all GIS, CAD, and SCADA users.
 - Provides training and technical support to all Town Department's GIS users as needed.
 - On occasion operates GPS and various survey equipment to assure the accuracy of the Town of Natick GIS. Operates GPS and various survey equipment to update the GIS database.
 - As requested inspects contractor's projects to assure compliance with plans and specifications. Answers questions from the public and properly directs their concerns to higher authorities.
 - Download, manipulate, and analyze water data. Prepare and process reports, answers questions from the public and town officials. Be able to perform the water meter reading duties.

GIS Coordinator

2005-2009

- Responsible for the overall coordination, development, implementation, operation, maintenance and training of Natick GIS including:
 - Administration of ArcSDE (MSSQL2005) versioned database for enterprise GIS
 - Migration from ArcView 3.x to ArcIMS for access to 'as-built layout plans'
 - Development and maintenance of water and sewer networks in the GIS
 - RTK GPS and Total Station field survey work
 - Provide mapping & application support for Police/Fire and all other town agencies
 - Network/IT administration and support for DPW network (3 Windows servers and 30 computers)

Town of Wayland, MA, Survey Department - *population 15,000*

2000-2005

GIS Analyst

- Responsible for the operation and maintenance of the Wayland GIS.
- Manage GIS projects for all town departments, boards, and commissions and those of the general public.
- Provide GIS presentations for employees, boards, and the general public.
- Establish internet based GIS application.
- Assist Town Engineer during field operations as needed.

ConAgra / Emerge, Precision Agriculture and Geospatial Information Service

1997-2000

Senior Image Analyst

- Participate in all functions related to the production of orthorectified digital images including combined GPS/IMU navigational processing, DEM processing, image enhancements, radiometric corrections, and product layout design.
- Coordinate with engineering staff to optimize software and database utility in production environment.
- Establish and document best practices and procedures used for all production activities.
- Design, engineer, test and document new value added products for implementation into mainstream production.
- Internet and intranet experience using HTML and FTP. Experience with web page design and online documentation using Netscape and Internet Explorer.

BankBoston, Distribution and Planning

1996-1997

GIS Consultant

- Developed base maps showing banking competition in New England region during Bay Bank/Bank of Boston merger. Maps were instrumental in the consolidation of banking assets.
- Responsible for design and production of maps for the department using Infomark software.
- Extensive choroplethic mapping using data derived from US Census to meet marketing and planning needs.
- Duties also included primary data acquisition, data base verification, and maintenance.

Salem State College, Department of Geography, Digital Geography Laboratory

1995-1997

Lab Technician

- Assisted in daily operations of computer cartography lab. Responsibilities included individual and group computer systems instruction, software installation, and hardware maintenance.

Ward Process, Inc., Thermal and acoustical insulation for industry.

1990-1995

CDL Class A/TPX Truck Driver

- Coordinated daily material shipments for metropolitan accounts, assisted with inventory maintenance, vehicular maintenance, and fork truck operations.

LICENSES, AWARDS AND HONORS

Commercial Driver's License Class A with Doubles/Triples, Passenger and Hazmat/Tanker Endorsements, *Commonwealth of Massachusetts and United States Dept. of Homeland Security*

Drinking Water Supply Facilities Grade 1T, *Commonwealth of Massachusetts Division of Professional Licensure*

J. Michael Ruane Award for Excellence in Digital Cartography, *Salem State University Department of Geography*

Gamma Theta Upsilon

Phi Kappa Phi

SELECTED PRESENTATIONS

- 2008-2013** **Framingham and Natick Public Schools** , Topic: “Maps and Map Making” A 45 minute presentation tailored to 2nd, 4th and 7th grade classrooms demonstrating scale, content, context and perspective using modern and 18th/19th century cartography
- 2006** **Natick Board of Selectmen**, Topic: “DPW Water Treatment Plant”
- Natick Board of Selectmen**, Topic: “Downtown Parking Remediation”
- 2005** **Wayland Board of Selectmen**, Topic: “Comprehensive Inventory of Town Owned Lands”
- 2004** **Wayland Art Council**, Featured Artist, Exhibit: “The Art of Map Making”
- Wayland Park & Recreation Commission**, Topic: “Town of Wayland Park & Recreation Lands”
- New England GIS Conference (NEGIS)**, Featured poster presentation
- MALSCE 2004, Massachusetts Association of Land Surveyors and Civil Engineers (MALSCE)**, Topic: “Comparing MassGIS Data to Local Data”
- 2003** **Wayland Art Council 2003**, Featured Artist, Exhibit: “Mapping Then and Now - Wayland Cartographic 1640-2003”
- Massachusetts Geographic Information Council (MGIC)**, Topic: “If I Knew Then, What I Know Now: Lessons Learned in Municipal GIS”
- Massachusetts Society of Municipal Conservation Professionals (MSMCP)** Topic: “How to use GPS for Conservation Land Management”
- 2002** **North East Arc Users Conference (NEARC)**, Poster session: Multiple entries.
- Riverfest**, Poster contribution for Concord League of Women Voters: “Concord River Watershed Area - Elevation Hillshading and Points of Interest”
- 2000** **GIS Day at the State House – Sponsored by MassGIS**, Poster session: “Orthozone - Orthophotography and Zoning Overlay Map”
- 1998** **Clark University**, Topic: "Precision Agriculture and Time Series Analysis: An Evaluation of Change and Times Series Techniques Using Near Real-Time Imagery to Predict Corn Yield Variability Early in the Growing Season"