



# KRISTY FRITTS

## GIS Specialist

### Academic Background

Bachelor of Arts (Geography), Syracuse University, Syracuse, New York, 2000

### Specialized Professional Competence

Ms. Fritts is an experienced and versatile Geographic Information Systems (GIS) specialist with extensive experience within the government sector. Her wide range of knowledge, from GPS field data collection in both urban and rural settings, to project and field crew management, data processor, and GIS specialist gives her a particularly-broad expertise in the field. She has successfully worked for a broad range of clients, delivering timely and accurate data and deliverables, utilizing up-to-date best industry practices. She has performed numerous detailed sub-surface utility inventories for municipalities and military installations and has built GIS base data from the ground up. Ms. Fritts has extensive experience working throughout Florida, and has also completed projects across the country. She has worked on watershed restoration projects, and has participated in phases of the Comprehensive Everglades Restoration Project (CERP). Her software skills include proficiency with ArcGIS 10.0, and she regularly participates in continuing education to stay current with industry trends and technology.

### Relevant Project Experience

#### ➤ **Public Internet Map Service Deployment**

In charge of putting an internet map service on the web to create a visual portal for residents and visitors to the City to obtain location information such as property ownership, flood zones, Land Use and Zoning, and municipal services such as trash pickup, school districts, and location of beach accesses. Worked with a consultant on developing site functionality and customization.

#### ➤ **City Asset Map Atlas Books**

Creation of a series of map books, based on a standard grid, that allowed City assets to be viewed at small scale over recent aerials. Books were generated for water, sewer, storm, trees, signs, landscape irrigation, and light poles.

#### ➤ **Generation of Sub-Surface Utility Base Data Sets**

Built complete base layers of both surface and subsurface utilities city-wide. Surface features were gathered using a sub-meter Trimble GPS unit. Subsurface data was created by as-built document research, and by working with corresponding utility owners to obtain CAD data when available.

#### ➤ **Parcel Basemap Maintenance**

Utilize COGO tools within ArcGIS to accurately draw parcel boundaries from legal descriptions. Basemap is updated regularly, as parcel geometry changes. Parcel data is linked to County taxroll data via folio.

#### ➤ **Analytical Mapping**

Provide spatial analytical services for a variety of municipal and public safety purposes, including capital projects planning, registered sex offender proximity buffer analyses, crime statistics mapping & visualization, and right-of-way versus private property differentiation.

#### ➤ **Patrick Air Force Base Utilities Mapping, Cocoa, FL**

Part of team responsible for the GPS collection of surface utility data throughout the air base, including stormwater drainage, water, and fiberoptics/electrical manholes. Also inventoried and attributed all runway lighting. Responsibilities included field work, using as-built documents to decipher systems, data QAQC, and management of field crew.

#### ➤ **Kissimmee Basin Modeling and Operations Study (KB MOS)**

Responsible for numerous complex GIS analyses involving the use of scripts, macros, and use of several ESRI extensions including Spatial, Network, and 3D Analyst. Involved in the creation of extensive terrain grids utilizing data from various sources, such as survey data, DTMs, and Microstation data. Assisted in the development of intricate hydrologic models for use in watershed restoration projects by providing high



accuracy GIS data and through manipulation of rainfall, stage, and flow time series data. Provided calculations to Engineering staff related to estimating canal lengths, parcel acquisition and cost analysis research. Assisted in the maintenance of the ArcHydro database for the Kissimmee Basin River Restoration project. Provided detailed technical memos prior to submission of deliverables to clients.

➤ **City of Weston, FL GIS services**

Responsible for a variety of general GIS duties as part of a team tasked with managing/growing the City's comprehensive GIS. Duties included Land Use/Zoning updates, parcel and taxroll updating, development of new data, updating maps within City's Comprehensive Plan, and creation of cartographic products. Responsible for development of, and staff training for, a custom data collection application for City's first tree inventory.

➤ **Savannah Area GIS, Savannah, GA**

Part of a team responsible for the complete sub-surface mapping of stormwater, sewer, and water utilities. Data collection involved using GPS for surface feature location, and opening of surface structures to determine pipe routing beneath the ground, as well as invert depths and flow direction. This included utilities located at Savannah Int'l Airport. Performed data QA/QC and prepared data for entry into Savannah Area GIS (SAGIS). Maintained contact with key City officials and attended meetings to provide project updates.

## Representative Professional Experience

**GIS Specialist, SWC, Key West, Miami, Hollywood and Ft. Myers offices, December 2010-present**

Ms. Fritts is in charge of GIS projects for SWC, including training other personnel, collecting and processing field data, conducting ArcGIS analyses of data, and preparing graphic presentations and reports.

**GIS Coordinator, City of Sunny Isles Beach, FL, May 2008-present**

Responsible for the creation and maintenance of the City's first GIS. Duties include data collection, research, parcel basemap/taxroll updating, spatial analysis, cartographic production, and correspondence with all City departments.

**GIS Specialist, South Florida Water management District through Earth Tech, Inc., February 2007-May 2008, Doral, FL**

**GIS Technician, Calvin Giordano & Associates, February 2005-February 2007, Ft. Lauderdale, FL**

GIS experience includes digitizing, creation of GIS coverages from plat data, legal descriptions, as-builts, aerial photography and other related data sources, and conversion of data from paper source documents, existing CAD files, and modern field data collection methods to a personal geodatabase or SDE environment. Assisted in development of custom ArcPad application for tree inventory for City of Weston, including lead role in GPS implementation phase of project, technical support, training of field staff, and documentation of all procedures. Primary responsibilities included periodic parcel updates for several local cities, management and updating of GIS for City of Weston, QA/QC of data, creation of project site location maps, creation of analytical maps resulting from various spatial or tabular queries for municipal clients, and thorough documentation for all GIS procedures used regularly by staff. Additional responsibilities included maintaining contact with clients and government agencies for purpose of project management and data acquisition, assisting GIS coordinator when required, and general administrative duties. Working knowledge of ArcMap 8.3 and 9.1, ArcSDE, ArcPad, and ArcView 3.2, including proficiency with versioning. Clients included City of Weston, FL; City of Lake Park, FL; City of West Park, FL; South Broward Drainage District, Southwest Ranches, FL.

**Surveying/GPS Technician, Woolpert, Inc., July 2000-February 2005, Miami, FL**

GPS experience includes RTK, RTD, and Rapid Static surveying for a variety of different municipal and engineering applications. Some of these include utility inventories, flood water mapping, E-911 address mapping, establishment of ground control networks in support of aerial photography and photogrammetric practices, and the collection of spatial data involved in hydrographic surveying. Familiarity and working knowledge of the use of numerous types of GPS and conventional equipment including Trimble Pro-XR, 4000, 4700, and 5700 GPS receivers and Trimble 5600 Robotic Total Station. Use of TSC1 and TSCE data collectors with TDS and Trimble Survey Controller software. Use of tablet PC and custom data collection software in conjunction with GPS field data collection. Demonstrated ability to manage field crews and handle



numerous types of GPS data post-processing. Ability to work in conjunction with GIS department to create smooth transition of data from field to database. Experience using data processing software such as Trimble Geomatics Office, ArcView, ArcMap, and Trimble Pathfinder Office, in addition to MS Word, Excel, and Access. Experience in dealing with clients directly in both project meetings and data presentation. Clients included Honolulu Board of Water Supply, HI; US Army Corp of Engineers (Crawl Key, FL hydrographic project & Ohio River navigation chart mapping); E911 mapping for Polk County BOCC, Polk County, FL; South Florida Water Management District (Everglades boundary survey), FL; aerial mapping ground control GPS surveys for Sarasota, Manatee, Palm Beach, Broward, Miami-Dade, and Orange Counties, FL & FDOT; sub-surface utility mapping for Savannah Area GIS (SAGIS), Savannah, GA; surface utility mapping for City of Fort Lauderdale, City of Margate, City of Boca Raton, Patrick Air Force Base, City of Ocala, FL and Aquarion Water Co., Bridgeport, CT.

### **Certifications, Training and Memberships**

- Member of The Association for GIS Professionals, Florida Chapter (FLURISA)
- Broward County GIS User Group
- FDOT Intermediate Work Zone Traffic Control Certified
- PADI Open Water Diver

