

## Mark Teschke

Geospatial Analyst



### EDUCATION

B.A., Environmental Studies & Geography, and GIS & Technology, Augustana College 2022

Joined Firm in 2022

Years of Experience: 5

Mark provides data collection and GIS support to our Spatial Technology Department. He conducts field surveys when needed, translates the data into feature attributes, documents and inventories utility features, and provides cartographic updates that allow our clients to better maintain and budget improvements to their utilities.

### REPRESENTATIVE PROJECTS

#### Lisle, IL

##### ***GIS Managed Services***

Updated Village of Lisle's GIS system from ArcGIS 10.6 to 11.4, which included deploying a brand-new Enterprise server with which to host data. The managed services have included identifying the state of the Villages data, upgrading the software, upgrading layer schemas to industry standards, publishing and creating new applications for internal and public mapping, managing licensing, and completing other daily GIS tasks. New applications include General Community, Zoning, Police Calls, Utility Field Maps, etc.

#### All B&W Office Locations

##### ***GIS Field Services***

Create and manage maps and apps for using high-accuracy GPS to collect and export construction data in GIS format. Tasks included making General As-Built and Quantities Maps that cover coordinate systems in all four states that Baxter & Woodman has construction projects in. Following completion of construction, exports of the data for CAD use are also created.

#### Batavia, IL

##### ***GIS/GPS Stormwater Utility Field Data Collection Phase III***

Provided data collection services to document and inventory the City's stormwater utility system for the Alternate Areas: City Parcels, Remaining NE Industrial, East Wilson (Railroad to City limits) and Area 1 (Combined Sewer Area).

#### Fox Valley Park District, IL / Crystal Lake, IL

##### ***Bathymetric Survey***

Performed bathymetric survey and Hydrone survey and data collection for six lakes in the Fox Valley Park District and Three Oaks Recreational Area in Crystal Lake. Provided cartographic updates for Foxcroft, Jericho, Spring Lake, Spring Lake South, Sutton, and Waubonsie Lakes.

#### Joliet, IL

##### ***2022 Water Main Improvements***

Performing water main as-built survey and collection for 110,800-linear feet of water main replacements with pipe sizes ranging from 8-inch to 16-inch. Sections of the project will include permitting from IDOT. The project will result in a total of 16 separate bid packages.

#### Williams Bay, WI

##### ***Bailey Estates Phase 4B***

Performed the updating of the GIS feature attributes and adding new attributes for the sanitary, water, and storm sewer systems in the Bailey Estates, Phase 4B

subdivision. Created annotation and full layouts and cartographic fixes for street and address maps.

## **DRONE EXPERIENCE\***

### **Plainfield, IL**

#### ***143<sup>rd</sup> Extension/Old Town Phase***

Providing monthly recurring drone flights to track construction progress for both projects including videos for public notification to residents for the 143<sup>rd</sup> extension progress.

### **Elk Grove Village, IL**

#### ***Clearmont Pedestrian Bridge***

Provided recurring flights during construction progress of a new pedestrian bridge including a successful night flight adhering to FAA guidelines. These videos were turned into an overall progress video used to win an award for APWA Design Projects.

### **Pompano Beach, FL**

#### ***Pompano Beach Golf Course***

Completed flight of the Pines Course at Pompano Beach Golf Course following its new reconstruction. The golf course is located directly off of the runway of Pompano Beach Airpark in 0-foot Class D airspace and required FAA approval and adherence in order to safely complete the flight.

## **EXPERIENCE**

### **Augustana College, Rock Island, IL\***

#### ***GIS Intern***

- Designed a geodatabase of the campus to digitize pavement and assess the quality of features throughout the campus utilizing ArcGIS Pro.
- Reviewed resulting pavement features in the geodatabase with campus administration to ensure it met their future needs for assessing repairs and facilities management.

### **UrbanGIS, Chicago, IL\***

#### ***Field GIS Intern***

- Audited over 1,100 ComEd utility poles in the Chicagoland area using IKE surveying tools and ArcOnline software to analyze flows of electricity and ensure safety of the community.
- Managed daily schedule independently, mapping job sites, and consistently producing a high volume of data collection in all weather conditions.

### **V3 Companies, Chicago, IL\***

#### ***Field Technician Intern, Chicagoland area***

- Conducted invasive species control by mechanical and chemical methods along with native wetland plant installation.
- Installed erosion control and irrigated native prairies and wetlands.