

MANEL CAPANGPANGAN

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PROFESSIONAL SUMMARY

Geospatial technician with hands-on experience maintaining 911 addressing datasets, editing road centerlines, updating land features, and supporting municipal-style GIS workflows. Skilled in ArcGIS Pro, ArcGIS Online, GPS data capture, spatial analysis, and ETL-style data cleanup using Python. Experienced in interpreting plats, site maps, blueprints, and engineering drawings for accurate digitization. Brings a strong record of data quality, problem-solving, and supporting real-world public safety and infrastructure operations.

KEY SKILLS

911 addressing & road centerline editing | Parcel and land feature editing | Spatial analysis & geoprocessing (buffer, clip, intersect, dissolve, spatial join) | GPS & Field Maps data collection | QA/QC for spatial and tabular datasets | ETL workflows using Python (arcpy, pandas) | Web maps, dashboards & UX testing | Interpreting plats, maps, blueprints & legal descriptions | File geodatabases, domains & subtypes

TECHNICAL SKILLS

ArcGIS Pro | ArcGIS Online | Experience Builder | Field Maps | Microsoft Excel (pivots, lookups) | Python (data cleanup, arcpy basics) | Basic SQL | File Geodatabases (domains, subtypes) | Shapefiles/CSV/CAD integration | Trimble GPS units | AutoCAD (intro) | Metadata editing

WORK EXPERIENCE

GIS Intern | Memphis-Shelby County Airport Authority | Memphis, TN

March 2026 – Present

Supported airport GIS operations through asset tracking, data maintenance, and map creation.

- Maintained and organized spatial data for airport assets.
- Edited GIS data and attribute tables to support accurate records and mapping.
- Created maps and data layers for airport operations, planning, and documentation.
- Supported geospatial workflows by organizing data from multiple sources for internal use.

GIS Intern | Mississippi Emergency Management Agency | Pearl, MS

July 2025 – August 2025

Created maps for emergency events such as hurricanes and severe weather incidents.

- Used disaster-mapping software to visualize affected areas and support situational awareness.
- Gained firsthand experience with how GIS supports real-time decision-making during emergencies.
- Assisted in drone mapping and data collection for post-event documentation.

GIS/Data Analyst | Delta State University Geospatial Center | Cleveland, MS

Aug 2024 – Sep 2025

Supported geospatial data management and mapping projects for campus and regional operations.

- Built and maintained a searchable campus utility map covering 40+ buildings and infrastructure systems.
- Digitized electrical, mechanical, and plumbing layouts from building blueprints and linked them to QR-coded assets.
- Cleaned and standardized attribute tables to improve accuracy for facilities and emergency routing.
- Created dashboards for Facilities staff and contractors to track maintenance, and documented metadata/workflows to improve data organization and consistency.

EDUCATION & CERTIFICATIONS

BACHELOR OF APPLIED SCIENCE IN GEOSPATIAL ANALYSIS AND INTELLIGENCE | DELTA STATE UNIVERSITY | EXPECTED 2026

Relevant Coursework: Geospatial Analysis, Imaging Science, Topographic Mapping, Case Studies in GEOINT