Amanda Hoffman

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TECHNICAL SKILLS

- **GIS & Mapping:** ArcGIS Pro, ArcMap, ArcGIS Online (Experience Builder, Dashboards, Survey123, StoryMaps), ModelBuilder, ArcFM, QGIS, Cartographic Design
- **Remote Sensing:** ERDAS Imagine, LiDAR processing, ArcGIS Pro raster tools
- **Data & Programming:** Python (ArcPy), SQL, PostgreSQL/PostGIS, Jupyter Notebooks, R
- **CAD & Drafting:** Bentley MicroStation, AutoCAD (ArcGIS Add-in Tools)
- **Web GIS & Systems:** AGOL administration, ArcGIS Server publishing
- **Professional Skills:** Technical documentation, metadata development, project coordination, client communication

EXPERIENCE

GIS Analyst, *Apex Engineering Group*   May 2025 - Present
- Build and maintain ArcGIS Online maps, Survey123, Dashboards, Instant Apps, and Experience Builder tools to support engineering workflows, field data collection, and client communication.
- Support water, sewer, and stormwater projects by preparing detailed system maps, updating asset records, and assisting with data-driven engineering decisions.
- Perform comprehensive QA/QC on spatial datasets to verify accuracy, resolve attribute and topology issues, and ensure consistency with engineering requirements and client expectations.
- Develop repeatable ArcGIS Pro workflows for data management, symbology, map templates, and project documentation in order to streamline project delivery and improve consistency.

GIS Technician, *RAMTeCH Software Solutions*   April 2023 – April 2025
- Mapped and maintained gas line infrastructure in ArcGIS Desktop and ArcPro using as-builts and CAD drawings, ensuring data accuracy for utility operations.
- Conducted quality control checks on GIS data digitization, verifying spatial accuracy and attribute completeness to ensure regulatory compliance.
- Utilized branch versioning in ArcGIS to manage and edit gas infrastructure data, ensuring seamless collaboration, conflict resolution, and data integrity across multiple users.

Digital Mapping Technician, *Martinez Geospatial*   August 2022 – March 2023
- Processed and analyzed large geospatial datasets to produce ROW exhibits, planimetric CAD files, and other GIS deliverables for engineering and land development projects.
- Digitally compiled high-accuracy topographic maps using stereo aerial imagery and LiDAR data, improving spatial analysis capabilities for clients.

Research Assistant, *Gustavus Adolphus College*   September 2019 – May 2021
- Collected and analyzed meteorological, hydrological, and geospatial data from Ecuadorian glaciers, contributing to climate change research and environmental policy discussions.
- Authored technical reports and research documentation for scientific, professional, and public dissemination, enhancing accessibility to complex spatial analysis findings.
- Designed ArcGIS geodatabase organization protocols, streamlining spatial data management for research.

EDUCATION

Masters of Geographic Information Science   Expected December 2026
University of Minnesota - Twin Cities, Minneapolis, MN

Bachelor of Arts in Geography, Biology, and Environmental Science   GPA: 3.7/4.0
Gustavus Adolphus College, St. Peter, MN
Dean List 2018-2022, Beta Beta Beta Honor Society, Gamma Theta Upsilon's Honor Society