



Ellis Atkinson

Transportation GIS Specialist

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SUMMARY

Transportation GIS Specialist with five years supporting roads, sidewalks, greenways, **traffic calming**, **multimodal systems**, and **asset management**. Hands on work includes ArcGIS Pro, ArcMap, ArcGIS Online, Survey123, Collector, AutoCAD, geodatabases, cartography, **as built drawings**, plat research, and quality control. Creates dependable GIS assets from site plans, construction records, field reviews, and drawing research. Produces maps, graphics, presentations, webpages, GIS exports, and print products for technical and public audiences. Coordinates data workflows across departments, documents procedures, investigates process improvements, and provides responsive customer consultation. Geography training supports sound spatial analysis, transportation infrastructure knowledge, organized prioritization, and clear communication. Current work reflects steady judgment, independent execution, practical research, and care for accurate information that supports safer, more connected communities.

EXPERIENCE

GIS Specialist, Transportation Data Operations

Blue Ridge Infrastructure Analytics 📅 July 2023 - Present 📍 Richmond, VA

Supports transportation GIS operations across ArcGIS Pro, ArcGIS Online, Survey123, Collector, AutoCAD, and geodatabases. Owns recurring data maintenance, field collection, drawing review, quality checks, documentation, and stakeholder service for infrastructure projects.

- Built road and sidewalk assets from **site plans**, as built drawings, and **field reviews**.
- Used **ArcGIS Pro** quality checks to catch geometry issues before stakeholder delivery and publication.
- Connected AutoCAD graphics with geodatabases for cleaner transportation asset records and map production.
- Created field collection forms in Survey123 and Collector, improving handoffs across operational teams.
- Prepared **cartographic maps**, graphics, presentations, webpages, exports, and **print products** for project reviews.
- Researched plat records and **construction drawings**, giving requestors clear answers within scheduled service windows.

GIS Technician, Planning Data Services

Riverbend Planning Collaborative 📅 June 2021 - June 2023 📍 Richmond, VA

Delivered GIS and CAD support for transportation planning, integrating ArcMap, **ArcGIS Online**, **Survey123**, Collector, AutoCAD, and geodatabases. Managed research requests, map products, workflow records, and quality review while coordinating priorities with planners and technical partners.

- Updated multimodal and greenway layers from construction records, field notes, and approved plan sets.
- Mapped **traffic calming** features in ArcMap, helping planners review location patterns during project meetings.
- Published ArcGIS Online layers and web maps after completing documented accuracy and completeness checks.
- Standardized Survey123 and **Collector** review steps, giving field teams clearer instructions and fewer corrections.
- Investigated plat and as built requests, locating source records for timely internal consultations.
- Prepared **GIS exports** and presentation **graphics** for cross department transportation workflow discussions.

GIS Assistant, Mapping Production

Piedmont Mapping Studio 📅 June 2020 - May 2021 📍 Richmond, VA

STRENGTHS

- 📍 **Field Data Judgment**
Field reviews once revealed gaps in asset records, so collection checks became part of every handoff.
- ♥ **Clear Documentation**
A simple procedure guide helped partners repeat GIS checks with less back and forth during busy assignments.
- ♥ **Service Mindset**
Plat research requests became easier for requestors after source records and findings were organized in plain language.
- 👥 **Cross Team Coordination**
When priorities shifted, calm communication kept planners, field staff, and mapping partners aligned on next steps.
- ✓ **Quality Focus**
A careful review caught incomplete attributes before publication, protecting confidence in maps used for infrastructure decisions.

SKILLS

GIS analysis ArcGIS Pro ArcMap

ArcGIS Online Survey123

Collector AutoCAD Cartography

Geodatabases Plat research

Quality control Transportation GIS

Field reviews Data workflows

Technical communication

LANGUAGES



MY CAREER



- GIS Specialist, Transportation Data Operations at Blue Ridge Infrastructure Analytics (3.2 Years)
- GIS Technician, Planning Data Services at Riverbend Planning Collaborative (2 Years)
- GIS Assistant, Mapping Production at Piedmont Mapping Studio (11 Months)

- Supported transportation mapping production through ArcGIS Online, Survey123, Collector, AutoCAD, and geodatabases. Prepared source data, maintained records, assisted with cartographic products, and learned disciplined quality practices within a supervised project environment.
- Entered field observations into Survey123, preserving complete records for transportation asset updates.
 - Reviewed Collector submissions for missing attributes and routed corrections before map publication.
 - Converted **AutoCAD** references into usable **GIS** inputs for sidewalk and roadway mapping assignments.
 - Produced **ArcGIS Online** maps and exports for project teams reviewing infrastructure conditions.
 - Organized **plat research** files and as built references, making later requests easier to resolve.
 - Applied documented quality checks across **geodatabases**, supporting consistent service for internal requestors.

PROJECTS

Multimodal Asset Mapping Initiative 📅 2024

Built a repeatable research process for plat and as built requests. Organized source drawings, documented review steps, and produced concise maps and GIS exports that helped teams answer infrastructure questions with confidence.

LEADERSHIP & AWARDS

- Recognized by project partners for dependable GIS quality review and clear technical documentation.
- Selected for expanded transportation data responsibilities after consistent delivery across field and mapping assignments.
- Trusted by peers for practical help with ArcGIS workflows, drawing interpretation, and request prioritization.

EDUCATION

Bachelor's Degree in Geography

Virginia Commonwealth University 🎓 GPA: 3.5 📅 2020 📍 Richmond, VA

Coursework: Geographic information systems, cartography, urban planning, spatial analysis

CERTIFICATIONS

- Esri ArcGIS Pro Foundation 📅 2026
- Valid Virginia Driver's License 📅 2026

TECHNICAL SKILLS

- **GIS Platforms:** ArcGIS Pro, ArcMap, ArcGIS Online
- **Field Collection:** Survey123, Collector, field reviews
- **CAD Integration:** AutoCAD, CAD graphics, drawing references
- **Spatial Databases:** Geodatabases, feature classes, attribute tables
- **Cartographic Production:** Maps, graphics, print products
- **Web Mapping:** Webpages, web maps, GIS exports
- **Transportation Systems:** Roads, sidewalks, greenways
- **Infrastructure Assets:** Traffic calming, multimodal systems, asset management
- **Drawing Interpretation:** Site plans, as built drawings, plat drawings
- **Office Software:** Microsoft Office, presentations, document production
- **Data Quality:** Quality control, validation, completeness checks
- **Research Methods:** Plat research, record research, source review

PROFESSIONAL AFFILIATIONS

- American Association of Geographers member, connecting geographic practice with community infrastructure needs.
- Virginia GIS community participant, sharing interest in accurate public data and useful mapping products.

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST