



Mateusz Cole

Geographic Applications Specialist

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SUMMARY

Geographic applications specialist with six years of combined geospatial education and professional experience, including more than four years developing and maintaining roadway, planning, and infrastructure GIS datasets with ESRI ArcGIS. Skilled in linear referencing, spatial data integration, digitizing, imagery interpretation, SQL Server, MS Access, and production of maps and tabular information for transportation stakeholders. Translates plats, **CAD engineering files**, aerial and **satellite imagery**, **local GIS layers**, and planning records into accurate **geographic databases** supporting roadway inventory, corridor analysis, asset management, permitting, environmental analysis, and reporting. Builds productive relationships with planners, engineers, surveyors, local governments, internal teams, and public users. Balances technical accuracy, customer service, deadlines, and shifting priorities while improving data quality and communicating practical findings.

EXPERIENCE

GIS Applications Analyst

Front Range Mobility Analytics 📅 January 2025 - Present 📍 Colorado Springs, CO

Own roadway centerline, inventory, and reporting datasets for transportation planners and asset teams. Lead source integration, web mapping support, **data quality** review, **local government** coordination, and customer guidance across concurrent statewide style initiatives.

- Maintain roadway centerline datasets with linear referencing, keeping mapped and tabular records synchronized.
- Integrate plats, CAD files, imagery, and **local GIS layers**, resolving conflicts before publication.
- Build **ArcGIS Experience Builder** resources, giving planners accessible roadway views without database access.
- Query **SQL Server** and **MS Access**, reconciling roadway records for recurring reporting cycles.
- Review maps and field records, documenting network gaps and recommended database corrections.
- Guide local users through online reporting workflows, resolving submissions with clear technical instructions.

GIS Analyst

High Plains Planning Collaborative 📅 June 2022 - December 2024 📍 Pueblo, CO

Developed regional transportation and land use datasets for corridor and **long range planning**. Supported public agencies and technical partners through mapping, database analysis, web application delivery, documentation, and coordinated update schedules.

- Developed transportation datasets from inventories, **master plans**, imagery, and engineering records.
- Digitized roadway features in **ESRI ArcGIS**, applying attribute standards across local jurisdictions.
- Prepared maps, technical documents, and extracts for engineers and environmental planners.
- Used **ArcGIS WebApp Builder** to organize public and internal transportation information.
- Investigated **GIS** inconsistencies with spatial analysis, imagery review, and tabular checks.
- Managed concurrent **mapping** requests, maintaining priorities, review checkpoints, and stakeholder commitments.

Transportation GIS Research Assistant

University Research Lab 📅 September 2020 - May 2022 📍 Greeley, CO

Supported supervised transportation research through roadway dataset creation, spatial validation, relational database work, imagery interpretation, and clear **presentation** of findings. Maintained reproducible documentation that helped student researchers continue updates.

- Built supervised roadway datasets from public spatial layers and imagery for accessibility studies.
- Applied ArcGIS geoprocessing and **digitizing** methods, identifying topology and attribute issues.

STRENGTHS



Data Integration

Merged plats, CAD files, imagery, and local layers, then resolved conflicts before roadway data publication.



Quality Investigation

Tracked network gaps through map review and source comparison. Colleagues valued clear correction notes.



Stakeholder Support

Guided local users through reporting workflows with patient explanations, turning submission problems into workable fixes.



GIS Delivery

Built web mapping resources for planners. Accessible roadway views became a practical alternative to direct database access.



Prioritization

Balanced mapping requests and scheduled updates across changing assignments, keeping technical reviews and commitments visible.

SKILLS

[GIS analysis](#) [ArcGIS](#)

[Linear referencing](#) [Data integration](#)

[Roadway inventory](#)

[Spatial analysis](#) [Data quality](#)

[SQL Server](#) [MS Access](#) [Mapping](#)

[Digitizing](#) [Imagery interpretation](#)

[Stakeholder support](#)

Technical writing

Transportation planning

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



● GIS Applications Analyst at Front Range Mobility Analytics (1.8 Years)

● GIS Analyst at High Plains Planning Collaborative (2.5 Years)

● Transportation GIS Research Assistant at University Research Lab (1.7 Years)

- Developed **MS Access** tables and SQL queries linking roadway characteristics with geographic features.
- Compared **aerial photographs** and **satellite imagery**, documenting observable transportation network changes.
- Produced map layouts and presentations explaining data sources, assumptions, and analytical results.
- Maintained processing notes, enabling student researchers to review methods and continue updates.

PROJECTS

Statewide Roadway Data Integration 📅 2025

Integrated roadway source records, imagery, CAD files, and local GIS layers into synchronized geographic and tabular products supporting planning and reporting.

Regional Corridor Planning Atlas 📅 2024

Created a regional map collection combining roadway inventories, master plans, and imagery for corridor evaluation and long range transportation planning.

LEADERSHIP & AWARDS

- Recognized by planning teams for dependable roadway data support and clear technical guidance.
- Received positive faculty recognition for reproducible transportation GIS research documentation.
- Selected for trusted coordination with local government staff during data submission reviews.

EDUCATION

Bachelor of Science in Geography, Geographic Information Science Concentration

University of Northern Colorado 🎓 GPA: 0 📅 2022 📍 Greeley, CO

Coursework: GIS database design, cartography, spatial analysis, transportation planning

CERTIFICATIONS

- Esri ArcGIS Pro Foundation 2101 Certification 📅 2025
- Microsoft Office Specialist, Excel Associate 📅 2024

TECHNICAL SKILLS

- **ESRI ArcGIS:** ArcGIS Pro, ArcGIS Experience Builder, ArcGIS WebApp Builder
- **GIS Data Creation:** Mapping, digitizing, geoprocessing
- **Linear Referencing:** Roadway segmentation, route measures, centerlines
- **Imagery Sources:** Aerial photographs, satellite imagery, imagery files
- **Source Integration:** Plats, local GIS layers, CAD engineering files
- **Database Platforms:** SQL Server, MS Access, relational databases
- **Transportation Data:** Roadway inventory, HUTF, HPMS
- **Planning Applications:** Corridor planning, long range planning, asset management
- **Microsoft Office:** Word, Excel, Access, PowerPoint
- **Google Applications:** Gmail, Google applications, online reporting
- **Data Quality:** Validation, source review, correction procedures
- **Web Mapping:** Web applications, reporting tools, public maps

PROFESSIONAL AFFILIATIONS

- Professional collaboration with local planners, engineers, surveyors, and transportation data users.
- Transportation GIS research collaboration with faculty reviewers and student analysts.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST