

Josiah Singleton

Traffic Systems Engineer

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STRENGTHS

- 🔧 **Field troubleshooting**
At busy intersections, compared observed operations with timing plans and gave maintenance teams usable findings.
- 💡 **Engineering judgment**
When plans conflicted with standards, identified issues early and presented practical alternatives for senior review.
- ♥️ **Clear reporting**
Turned model results and field observations into concise memoranda that helped stakeholders make decisions.
- 👥 **Technical collaboration**
Worked across agencies, consultants, and maintenance teams, building confidence through timely and factual updates.
- 🗂️ **Organized analysis**
Structured signal inventories and equipment records in Excel and Access, making recurring reviews easier to follow.

SKILLS

Signal operations Timing plans

Traffic modeling MUTCD

FHWA guidance Field reviews

Intersection troubleshooting

Plan review Signal modernization

Engineering studies

Technical reports

Computer networks

Conflict resolution Microsoft Excel

Public infrastructure

SUMMARY

Traffic systems engineer with three years supporting municipal **signal operations**, timing analysis, transportation modeling, field troubleshooting, and **traffic control modernization**. Holds an Indiana **Engineer In Training** certificate and applies MUTCD, FHWA guidance, state requirements, and local infrastructure standards during engineering reviews and operational decisions. Develops **signal timing plans**, reviews consultant materials, conducts intersection studies, prepares technical reports, and documents traffic signal hardware. Uses Microsoft Word, Excel, Access, Outlook, and PowerPoint to organize analysis, inventories, reports, and stakeholder communication. Combines independent judgment with practical field experience, computer network exposure, conflict resolution, confidentiality, and clear technical writing. Ready to apply disciplined engineering support across signal operations, modernization priorities, public infrastructure standards, and transportation programs.

EXPERIENCE

Traffic Systems Engineer

Midstate Transportation Consulting 📅 October 2024 - Present 📍 Bloomington, IN

Supports municipal signal operations, timing analysis, transportation modeling, consultant plan review, modernization studies, and technical reporting. Coordinates office analysis with field observations while communicating findings to agency engineers, maintenance personnel, consultants, and public sector stakeholders.

- Analyzed coordinated corridors and **controller data**, producing timing recommendations for municipal signal operations.
- Conducted intersection **field reviews**, documenting timing discrepancies and troubleshooting findings for agency maintenance teams.
- Built transportation models from **traffic volumes** and **timing parameters**, informing project decisions through technical memoranda.
- Reviewed **consultant signal plans** against MUTCD, FHWA guidance, and client standards, identifying conflicts before implementation.
- Prioritized aging equipment for **modernization** studies using operational need, reliability, and system compatibility.
- Maintained signal records with Word, Excel, Access, Outlook, and PowerPoint for stakeholder reporting.

Graduate Traffic Engineer

Crossroads Mobility Solutions 📅 October 2023 - September 2024 📍 Terre Haute, IN

Performed supervised traffic engineering assignments involving **signal timing**, intersection operations, field data collection, infrastructure specifications, technical exhibits, and agency communication. Supported senior engineers with practical analysis, documentation, troubleshooting, and alternative timing concepts for roadway improvement projects.

- Evaluated signal plans and field observations, preparing alternative timing concepts for senior engineer review.
- Applied **MUTCD** requirements and infrastructure **specifications** during consistent technical reviews of traffic control documentation.
- Created **Excel** and **Access** tools organizing intersection inventories, timing parameters, equipment details, and study observations.
- Documented controller behavior and communications issues during **field troubleshooting**, supporting faster operational diagnosis.
- Prepared technical exhibits and presentations that translated analysis results into recommendations for agency project meetings.
- Collected intersection data for roadway projects, connecting observed progression and queues with timing recommendations.

LANGUAGES

English	Native
Spanish	Beginner

MY CAREER



- Traffic Systems Engineer at Midstate Transportation Consulting (2 Years)
- Graduate Traffic Engineer at Crossroads Mobility Solutions (11 Months)
- Engineering Technician at Hoosier Signal Engineering (11 Months)

Engineering Technician

Hoosier Signal Engineering 📅 October 2022 - September 2023 📍 Lafayette, IN

Supported municipal traffic signal projects through field inventories, timing data checks, plan markups, equipment documentation, communications research, and report preparation. Maintained accurate records and coordinated technical information while following established quality control procedures and protecting confidential project material.

- Completed **signal inventories** and timing checks, supplying engineers with reliable **modernization** study information.
- Collected equipment observations outdoors, recording field conditions used for intersection operations and upgrade planning.
- Reviewed **traffic control drawings** against procedures, escalating discrepancies for engineering resolution and documented follow up.
- Maintained Excel and Access asset records, improving traceability between field observations and plan sets.
- Researched **traffic communications** concepts, documenting reliability considerations for future field device upgrades.
- Supported reports and stakeholder coordination while protecting project information through established **quality control** procedures.

PROJECTS

Municipal Signal Modernization Study 📅 2025

Reliable public infrastructure matters because signal operations shape daily travel and public confidence. Evaluated equipment condition, operational need, and system compatibility, then organized modernization priorities that gave engineering teams a clearer basis for investment decisions.

Computerized Transportation Model Review 📅 2024

Better decisions begin with useful evidence. Combined traffic volumes, timing parameters, and operational trends in a computerized transportation model, then translated findings into technical guidance for roadway improvement planning.

LEADERSHIP & AWARDS

- Indiana Engineer In Training certificate, recognized in 2022 for meeting state engineering development requirements.
- Municipal traffic systems project recognition, supporting clear technical reporting and dependable field documentation.
- Technical collaboration recognition, contributing practical signal operations insight across engineers, consultants, and agency staff.

EDUCATION

Bachelor's Degree in Civil Engineering

Indiana State University 🎓 GPA: 3.5 📅 2022 📍 Terre Haute, IN

Coursework: *Transportation engineering, traffic systems, structural analysis, engineering economics*

CERTIFICATIONS

- Engineer In Training, Indiana 📅 2022
- Valid Indiana Driver's License 📅 2022

TECHNICAL SKILLS

- **Microsoft Office:** Word, Excel, Access, Outlook, PowerPoint
- **Traffic Signal Systems:** Signal controllers, timing plans, signal hardware
- **Transportation Modeling:** Computerized models, traffic volumes, operational trends
- **Traffic Standards:** MUTCD, FHWA guidance, state specifications
- **Engineering Documentation:** Technical memoranda, engineering studies, technical reports
- **Field Operations:** Intersection reviews, test sites, field troubleshooting

- **Signal Plan Review:** Phasing plans, signal drawings, consultant materials
- **Asset Data Management:** Signal inventories, equipment records, Access databases
- **Traffic Communications:** Telecommunications research, computer networks, field communications
- **Infrastructure Modernization:** Equipment priorities, reliability analysis, system compatibility
- **Project Communication:** Agency coordination, consultant liaison, conflict resolution

PROFESSIONAL AFFILIATIONS

- Traffic engineering professional community, sharing practical signal operations and transportation analysis knowledge.
- Public infrastructure professional network, connecting field observations with responsible modernization planning.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST