STRENGTHS

Analytical Thinking
Transformed raw data into insightful conclusions across diverse traffic studies, directly boosting project impact.

Team Collaboration
Understood group dynamics, merging ideas seamlessly which enhanced overall project pricing and cohesion.

Data Visualization
Crafted clear visual reports summarizing complex traffic findings, paving clarity for both experts and locals.

Technical Software Skills
Applied major tools like Synchro and GIS extensively in coursework, bridging theory with practical analysis.

Research Presentation
Delivered effective summaries highlighting research outcomes to stakeholders shaping consequential community applications.

SKILLS

Traffic Engineering | Data Analysis | Synchro | VISSIM | GIS | Team Collaboration | Research Presentation | Cross-functional Communication | Problem Solving | Public Speaking | Hands-on Learning | Innovative Design

Waylon Knight

Traffic Engineering Intern

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SUMMARY

Current civil engineering student eager to apply theoretical knowledge in a real-world setting. Experienced in traffic analysis, gathering and interpreting field data effectively. Proficient in Synchro, VISSIM, and GIS tools, developed through academic projects and driven collaboration. Previous work displayed a strong aptitude for reporting findings succinctly and presenting impactful solutions. Seeking to contribute valuable insights to advance infrastructure initiatives while gaining further insights from industry professionals. Excited about the opportunity at Jacobs and ready to make meaningful contributions to the team.

EDUCATION

Bachelor of Science in Civil Engineering

Springfield University GPA: 3.5 2027 Springfield, IL

Coursework: *Traffic Engineering, Structural Analysis, Environmental Engineering, Materials Science*

TECHNICAL SKILLS

- **Traffic Analysis Tools:** Synchro, VISSIM, GIS
- **Data Management Systems:** SQL, Excel, Tableau
- **Presentation Software:** PowerPoint, Google Slides
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Engineering Standards:** AASHTO, FHWA, TRB
- **Research Methods:** Qualitative Analysis, Quantitative Surveys, Case Studies
- **Simulation Software:** MATLAB, Simulink, ArcGIS
- **Project Management Tools:** Trello, Asana, Monday.com
- **Design Methodologies:** Lean Six Sigma, Agile Development
- **Networking Platforms:** LinkedIn, WhatsApp, GitHub

EXPERIENCE

Traffic Engineering Analyst

University Project January 2026 - Present Springfield, IL

Analyzed local intersection efficiency as part of capstone project with a focus on improving traffic systems. Collaborated with a team to deliver recommendations based on simulations and field data. Enhanced analytical and presentation skills, preparing reports for evaluation by authorities.

- Compiled municipal traffic data from multiple sources for thorough evaluation of ongoing projects.
- Utilized Synchro and VISSIM software to create intricate traffic flow simulations, testing various improvement scenarios.
- Collected vehicle count and signal timing information during field studies, resulting in actionable insights.
- Presented detailed reports to faculty, utilizing visual aids like tables and charts to communicate complex data.
- Teamed up with peers to ensure comprehensive approach to problem-solving that connected user experience and technical performance.

Traffic Data Collection Assistant

Academic Research September 2025 - December 2025 Springfield, IL

Supported research activities by collecting relevant traffic data focusing on urban congestion issues. Engaged in analyzing findings using GIS and prepared thorough assessments for presentations. Strengthened communication skills through collaboration with faculty members.

- Gathered real-time traffic observations within Springfield's urban framework to understand

Interpersonal Skills | Adaptability

Report Writing

Field Data Collection

LANGUAGES

English — Native

Spanish — Intermediate

MY CAREER

- Traffic Engineering Analyst at University Project (6 Months)
- Traffic Data Collection Assistant at Academic Research (3 Months)

congestion patterns.

- Processed collected data utilizing GIS tools to identify key points affecting traffic mobility and safety.
- Assisted in the formulation of conference presentations aimed at community stakeholders highlighting informed proposals.
- Collaborated effectively in weekly meetings, exchanging updates to develop future research tactics and strategies.
- Worked with diverse teams, understanding varied perspectives led to richer insights during discussions.

Traffic Solutions Developer

Hackathon Project | March 2026 | Springfield, IL

Engaged in competitive hackathon to develop innovative technology-based solutions aimed at traffic management. Achieved recognition for creativity and practicality while refining quick-thinking problem-solving skills.

- Developed a prototype application leveraging real-time traffic data to recommend optimal routes considering user conditions.
- Collaborated with coding partners, leading brainstorming sessions that pushed creative boundaries of the project.
- Presented a fully functional prototype to judges, obtaining constructive feedback which streamlined development further.
- Integrated collaborative techniques to enhance the productivity of team efforts irrespective of challenges faced during the event.
- Leveraged rapid learning approaches, adopted new tools instantly showcasing adaptability under pressure.

LEADERSHIP & AWARDS

- Dean's List, Spring 2025
- First Place, University Engineering Design Competition, 2026

CERTIFICATIONS

- Certified in GIS Fundamentals 2026
- Traffic Engineering Software Training 2026

PROFESSIONAL AFFILIATIONS

- Active Member, Civil Engineering Society, 2025 – Present
- Volunteer, Local Community Traffic Safety Initiative, 2025 – Present

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST