

GUSTAVE EIFFEL

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EXPERIENCE

Transportation Engineer II, *AECOM*, West Lafayette, IN May 2023 - Present

- Work on roadway, traffic, and multimodal design projects from early planning through final plans for city, county, and state clients.
- Create roadway layouts, alignments, and intersection designs in Civil 3D and OpenRoads, coordinating with traffic and drainage teams.
- Prepare plan sheets such as plan/profile, staging, traffic control, pavement markings, signing, and cross-sections for construction packages.
- Run traffic operations analysis in Synchro and SimTraffic and prepare LOS tables, delay summaries, and signal timing updates.
- Review crash data, identify patterns, and help recommend safety improvements including turn lanes, signals, and access changes.
- Draft technical memos, design calculations, quantities, and cost estimates for senior engineers and DOT reviewers.
- Coordinate with structural, geotechnical, and environmental teams to resolve design issues and move projects to final design.

Transportation Engineer I, *Jacobs*, West Lafayette, IN Jun 2020 - May 2023

- Assisted with roadway and intersection design by preparing base maps, redlines, and early layouts in AutoCAD and Civil 3D.
- Collected traffic data such as turning-movement counts and speed studies and created summary sheets for reports.
- Assisted with traffic control plans, detours, and work-zone phasing for utility work, resurfacing, and reconstruction projects.
- Supported crash screening tasks and prepared documentation for safety funding applications.
- Processed survey data to build existing-condition surfaces and alignment references for roadway and ADA ramp upgrades.
- Tracked plan updates, comments, and utility conflicts while coordinating with survey staff, designers, and contractors.

Transportation Engineering Intern, *WSP*, West Lafayette, IN May 2018 - Jun 2020

- Supported traffic safety and mobility studies through field inspections, traffic counts, and multimodal evaluations across city streets.
- Assisted with signal timing checks, pedestrian delay studies, and intersection performance observations.
- Documented issues with curb ramps, crosswalks, pedestrian signals, and signs and prepared improvement notes based on ADA and MUTCD requirements.
- Helped maintain GIS databases for signs, markings, and signal equipment.
- Summarized crash data and supported engineers in developing options for local safety projects.

EDUCATION

BSCE, *Purdue University*, College of Engineering May 2018

SKILLS

- **Roadway Design:** AutoCAD, Civil 3D, MicroStation, OpenRoads
- **Traffic Analysis:** Synchro, SimTraffic, TransModeler