



Janelle Clayton

PE, PTOE
Manager/Co-Owner



Mark Stuempel

PE, PTOE
Co-Owner/Sr. Engineer



Lee Baer

PE, Co-Owner/Sr. Engineer
Joined Merge in 2020



Jason Fine

Sr. Design Technician
Joined Merge in 2022



Michael Hare

PE, PTOE, Sr. Engineer
Joined Merge in 2023



Merging a Passion for Engineering and Relationships

Merge Midwest Engineering, LLC is a traffic engineering consulting company founded in January 2017 and located in Olathe, Kansas. Merge Midwest offers a full range of traffic engineering services for both public and private sector clients. Our expertise covers traffic engineering studies and design. Examples of our design expertise include traffic signals, street lighting, pavement marking and signing, temporary traffic control, and sidewalk and ramp designs. Examples of our study experience include traffic impact, traffic noise impact, safety, traffic signal warrant, access management, parking, traffic signal timing and optimization, walkability, and travel time and delay studies. We also have Miovision SCOUT cameras and tube counters which we use to collect traffic data.

Three of our traffic engineers at Merge Midwest are owners of the company. There is a pride in ownership when we are working for clients; we go above and beyond in responding to needs as it is a direct reflection of us and our company. We have a genuine passion for the work we do and for collaborating with people.

Our engineers have completed:

260+
TRAFFIC STUDIES

160+
TRAFFIC DESIGN
PROJECTS

45+
NOISE STUDIES

Our expertise includes work in the following areas:

STUDIES

- Access Management
- Freeway Operations
- Traffic Noise
- Origin and Destination
- Parking
- Traffic Impact
- Traffic Signal Timing Optimization and Synchronization
- Travel Time and Delay
- Walkability

DESIGN

- Signing and Pavement Marking
- Street Lighting
- Temporary Traffic Control
- Traffic Signal
- ADA Compliant Sidewalks

DATA COLLECTION

- Machine and Manual Traffic Counts
- Parking Inventories
- Sign Inventories
- Travel Time Measurements



What makes a firm qualified to perform traffic engineering services? At Merge Midwest, experience, responsiveness, quality, and community work together to ensure trusted partnerships with our clients.

EXPERIENCE

Experience is vital to identify and prevent potential problems on projects before they ever occur. When Merge Midwest is brought on to help resolve existing problems, our team uses their more than 70 years of combined traffic engineering experience to creatively and quickly identify solutions.

RESPONSIVENESS

We understand timely responses to requests are vital for project success and happy clients. We are committed to responsiveness and are available when our clients need assistance. We understand that sometimes the client is working on a short timeframe, and we are always prepared to “jump right in.”

QUALITY

Quality products are a staple of our services. We understand the products we provide are representing the client as well. Merge Midwest has a formalized quality assurance and quality control process that incorporates a variety of best practice procedures. The program outlines personnel responsibilities and provides guidance to regulate quality, including quality reviews as the project progresses through each milestone. A quality review includes collaboration by at least two team members agreeing that the quality of the work is sufficient for the given milestone. This interactive process between professionals strengthens our team and increases the quality of our projects.

COMMUNITY

We genuinely have a passion for the work we do and for collaborating with people, merging a passion for engineering and relationships. Our team has extensive experience attending public meetings and city council meetings, and we communicate traffic engineering methods and procedures in a way that is easily understandable.

LICENSES

Merge Midwest Engineering, LLC is licensed in:

- Kansas
- Missouri
- Nebraska
- Iowa

CERTIFICATIONS

We are proud to hold the following professional certifications:

- MoDOT LPA
- MoDOT Prequalified Consultant
- KDOT Prequalified Categories 173,231
- Traffic Noise-FHWA-NH I-142051-Highway Traffic Noise*
- Traffic Noise Model 2.5 Software*

ON-CALL EXPERIENCE

We currently provide on-call services for:

- City of Overland Park, Kansas
- City of Roeland Park, Kansas
- City of Spring Hill, Kansas

Janelle is responsive and always willing to dig into a challenge.

Tawn Nugent, PE
TREKK Design Group, LLC

“When the contractor changed phasing, and we ended up with a traffic-flow problem, Mark was right there, finding a great solution within a very short time frame. Thank you for your flexibility and responsiveness!”

Kristi Eichkorn, PE
Kansas Turnpike Authority

*Certifications held by Mark Stuempel, PE, PTOE

US-50 & CHIPMAN ROAD BRIDGE REPLACEMENT PROJECT | LEE'S SUMMIT, MISSOURI J4P3009 & J4P3009B

Client: MoDOT - Kansas City District

Contact: Allan Ludiker | 816.607.2267

Merge Midwest was part of the GBA team that completed construction phasing, detour plans, and temporary traffic control plans for the bridge replacement at Chipman Road in Lee's Summit, MO. The \$5.6 million project was funded through MoDOT's Statewide Transportation Improvement Program and included a combination of funds from the Governor's Focus on Bridges program, state, and local funds. The new bridges provide for safe and reliable services for US-50 and Chipman Road traffic and also provide sidewalks for pedestrians on both sides of Chipman Road.



FORWARD 44 - I-44 PURPOSE & NEED STUDY (WEST OF ROUTE 17 TO ROUTE 100) VARIOUS COUNTIES, MISSOURI

Client: MoDOT - Southwest District

Contact: Kristi Bachman | 417.829.8040

Merge Midwest was part of a consultant team that updated the Purpose & Need Study for I-44 within the state of Missouri. I-44 is a significant corridor for the state of Missouri. It carries a high number of trucks, and it provides a link from the city of St. Louis in the eastern part of the state to the Oklahoma state line in southwest Missouri. Constructed more than 50 years ago, many portions of the route need to be brought up to current design standards. The project included updating the previous 2008 Purpose & Need Study to reflect current and projected needs across the corridor. Merge Midwest's tasks included daily and peak-hour traffic volume development for existing and future design scenarios and Highway Capacity Manual Analysis along I-44 from St. Robert to Gray Summit, Missouri (East Section). Freeway segments, merge, diverge, and weaving sections were analyzed to determine the levels of service along the corridor and to identify areas of concern.



87TH STREET & ANTIOCH ROAD TRAFFIC SIGNAL DESIGN, OVERLAND PARK, KANSAS

Client: City of Overland Park, Kansas

Contact: Brian Geiger | 913.895.6020

Merge Midwest completed a design for the full replacement of the traffic signal at the intersection of 87th Street & Antioch Road for the City of Overland Park under the current on demand contract. The design included new ADA-compliant sidewalk and ramps in all quadrants of the intersection, working around multiple utilities, and utilizing the existing traffic signal while the new one was being constructed.



ROUTE K NOISE STUDY - CAPE GIRARDEAU COUNTY

Client: MoDOT Southeast District

Contact: Matt Burcham | 573.526.6679

Merge Midwest completed a noise study for MoDOT Project J9S3847 Route K, from County Road 319 to 0.2 miles East of County Road 317. Tasks included in-field measurements, TNM modeling, and preparing the report summarizing the findings. The analysis determined that no barrier analysis was required as there were no impacted receivers in the project corridor.



US-69 EXPRESS DESIGN BUILD, OVERLAND PARK, KANSAS

Client: KDOT

Contact: Craig Cogan | 913.312.4847

Merge Midwest is part of the consultant team working on the design of the toll-lane addition to US-69 in Overland Park for KDOT. The project includes the widening of US-69 from four to six lanes and upgrading the interchanges at 167th Street, 135th Street, Blue Valley Parkway, 119th Street, College Boulevard, and I-435. Our tasks include designing permanent pavement markings, permanent signing, and guide sign details for the 10-mile project. Merge Midwest is also providing design oversight for the street lighting and traffic signal designs.



10TH AVENUE & LIMIT STREET FEDERAL AID STUDY AND INTERSECTION IMPROVEMENTS, LEAVENWORTH, KANSAS

Client: City of Leavenworth, Kansas

Contact: Brian Faust | 913.684.0375

Merge Midwest completed a safety study for the City of Leavenworth, Kansas as part of the Kansas Department of Transportation's (KDOT) Federal-Aid Safety Program for Fiscal Years 2025 & 2026. The study included the collection of traffic volumes, crash data analysis, the selection of countermeasures following Highway Safety Manual procedures, cost-benefit analysis, and a technical report. KDOT awarded the City of Leavenworth \$1,000,000 in funding to implement the safety countermeasures identified in the report including the installation of left-turn flashing yellow arrow heads, adding battery backup, adding retro-reflective sheeting to the signal backplates, and updating signal timings and clearance intervals. Merge Midwest is currently designing the intersection and traffic signal improvements that were recommended in the study.



191ST STREET & US-169 SAFETY STUDY, SPRING HILL, KANSAS

Client: City of Spring Hill, Kansas

Contact: Alysén Abel | 913.592.3664

Merge Midwest completed an intersection safety study for the intersection of 191st Street & US-169 in Spring Hill, Kansas. The study included collecting turning-movement count data, calculating crash rates, and analyzing intersection capacity. A Highway Safety Manual analysis was completed to determine recommended safety improvements to address the growing safety challenges at the intersection due to increasing crashes and growth in traffic volumes. Traffic signal warrant analyses were completed, and signalization was recommended for the intersection.



OPERATION GREEN LIGHT (OGL) MIDTOWN TRAFFIC SIGNAL TIMING OPTIMIZATION, KANSAS CITY, MISSOURI

Client: Mid-America Regional Council (MARC)

Contact: Ray Webb | 816.701.8358

Merge Midwest was part of a team that completed the traffic signal timing optimizations for four corridors in Midtown along Troost Avenue, The Paseo, Linwood Boulevard, and E. 31st Street. Tasks include field inventory of pedestrian facilities, travel time measurements utilizing Tru-Traffic software, and field implementation of updated signal timings.