



KITTELSON LLC

FORENSIC TRANSPORTATION ENGINEERING

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TROY ROTHER, ME, PE, PTOE

SENIOR PRINCIPAL ENGINEER | [TROther@KITTELSON.COM](mailto:TROTHER@KITTELSON.COM)

PROFESSIONAL SPECIALIZATIONS

Traffic Engineering including the application of the *Texas Manual on Uniform Traffic Control Devices* (TMUTCD), the American Association of State and Highway Transportation Officials' (AASHTO) *A Policy on Geometric Design of Highways and Streets*, traffic control plan development, traffic signal and multi-way stop warrant studies, and sight distance evaluations. Licensed Professional Civil Engineer in the fields of roadway and traffic signal design, construction, traffic control plans, and traffic operations.

- Registered Professional Engineer (Texas), Number 91978
- Registered Professional Engineer (Louisiana), Number 46457
- Certified Professional Traffic Operations Engineer

EDUCATION

- Master of Engineering in Civil Engineering with specialization in Transportation
Texas A&M University, May 1999
- Bachelor of Science in Civil Engineering
Texas A&M University, May 1997

WORK EXPERIENCE

Kittelison LLC, College Station, Texas
Senior Principal Engineer, August 2024-Present

Adamson Engineering, LLC, College Station, Texas
Transportation Engineer, January 2022 – August 2024

- Transportation Engineer – Review and evaluate temporary traffic control plans; traffic control device deployment; work zone compliance; traffic signal timing plans; roadway designs; as well as construction and maintenance compliance. Extensive knowledge in the application of standards needed to provide expert opinions through professional reports, depositions, trial testimony and/or other means. Assist in the investigation, inspection, testing, and reconstruction of vehicle crashes involving automobiles, tractor/trailers, motorcycles, bicycles, and/or pedestrians.

Consultant, College Station, Texas
Transportation Engineer, November 2011-December 2021

- Consulting Services – Provided transportation engineering consulting services in the areas of temporary traffic control plans and implementation, traffic control device deployment, work zone compliance, and traffic signal timings.

City of College Station, College Station, Texas
City Traffic Engineer, November 2003-March 2022

- Division Manager – Managed the daily operations and budget for the Traffic Engineering Division as well as oversaw the operations of the Traffic Signals and Traffic Sign & Markings Divisions.
- Engineering – Completed signal warrant studies, multi-way stop warrant studies, speed studies, sight distance evaluations, parking removal, traffic control design and approval. Chaired the City’s Traffic Management Team comprised of a select group of staff and directors addressing transportation issues in the City.
- Project Manager – Managed contractors and consultants who designed and installed projects for the City. Led the City’s effort in a \$4.5 million project to overhaul the entire traffic signal system for the City of College Station which included purchasing and installing all new signal equipment, central system software, communication systems, pan-tilt-zoom cameras at the intersections, and building a traffic management center. Within the traffic management center, automated traffic signal performance measures (ATSPM) software was also installed so the operation of each traffic signal could be monitored and optimized. Managed the *Texas Avenue Streetscape* project, involving the installation of trees and irrigation system along Texas Avenue.
- Program Manager – Managed the City’s Red-Light Camera program which included administration, operation, evaluation, and education. Analyzed data, communicated with the vendor, addressed staff concerns/problems, and communicated with citizens and the media regarding the program. Managed the City’s Traffic Calming program and the Adopt-A-Street program.
- Outside Agency Liaison – Coordinated with the Texas Department of Transportation, Brazos County, City of Bryan, and Texas A&M University on projects, activities, and other cooperative efforts.
- Presentations – Interviewed by media regarding red light cameras, parking removal, and traffic operations. Presented transportation information to City Council and the public in a variety of forums such as conferences, City-developed television programs, public hearings, public meetings, telephone calls, and letters.

Texas Department of Transportation, College Station, Texas
Transportation Engineer, March 2001-November 2003

- Reconstruction Project (Texas Avenue between FM 2347 and FM 2818) – Designed the pavement structure, the roadway vertical alignment, the traffic control plan, and the storm sewer systems; conducted level of service analyses; attended commissioner hearings during the right-of-way acquisition process. Determined the placement of the median noses at the intersections, developed cost estimates for the analysis of alternatives, and guided the design of the striping and sign placement plans.
- Resurfacing Projects (SH 6 Micro-Surfacing and SH 21 Sealcoat) – Developed a complete PS&E package for the projects including the striping layout, which was designed using the Texas Manual on Uniform Traffic Control Devices; pavement repair detail sheets; and traffic control sheets.

Wilbur Smith Associates, Houston, Texas
Transportation Designer, February 1999-February 2001

- Traffic Impact/Signal Warrant Analyses – Analyzed existing and future roadway conditions, performed trip generation, distributed generated traffic onto study area network, performed signal warrant analyses, and provided recommendations for improvement.
- Railroad At-Grade Crossing Studies – Analyzed existing at-grade railroad crossing conditions and provided recommendations to improve mobility and safety at the crossings.
- Intersection Design – Designed the placement of traffic control devices, the hardware, the ADA-acceptable pedestrian ramps, and the wiring of the signal and vehicle detection systems to be installed at the intersections. Redesigned the northwest corner of the Telephone Road and Brisbane intersection by increasing the radius in order to improve turning maneuvers performed by tractor-trailers.
- Other projects – Analyzed existing and proposed signage along roadways, analyzed existing and future roadway conditions, and developed intersection striping plans.

Texas A&M Transportation Institute, College Station, Texas
Graduate Research Assistant, August 1997-December 1998

- Assisted in developing a “state-of-the-practice” synthesis of ITS Benefits research and practical experience.

COMMITTEES

- Reviewer of the ITE Delegation for the National Committee on Uniform Traffic Control Devices (NCUTCD). Institute of Transportation Engineers (ITE). Washington, DC. Reviewer. 2011-Present
- National Cooperative Highway Research Program, Project 03-122: *Performance-Based Management of Traffic Signals* (NCHRP 03-122), 2017-2018
- Pooled Fund Study TPF-5(377) *Traffic Signal Systems Operations and Management* - PFS TPF-5(377), 2019

PUBLICATIONS AND AWARDS

- “ITS Benefits: Review of Evaluation Methods and Reported Benefits,” Texas Transportation Institute, Research Report 1790-1, October 1998
- Texas Society of Professional Engineers 2017 Engineer of the Year – Brazos Valley Chapter

PROFESSIONAL ASSOCIATIONS

Institute of Transportation Engineers – Member
Texas Chapter of Institute of Transportation Engineers - Member
Brazos Valley Section of Institute of Transportation Engineers – Member
International Municipal Signal Association - Member