



MICHAEL J. JORGENSEN, P.E.

Career Summary:

Prior to joining Wi-Skies, LLC as Lead Traffic Signal Engineer, Mike served as a Traffic Engineer Specialist with the Iowa Department of Transportation in the Traffic and Safety Bureau for 25 years. In this position, Mike oversaw the design of hundreds of roadway signing, lighting, and traffic signal projects. His daily responsibilities included design plans, reviewing consultant plans, shop drawing reviews, as well as maintaining standards and specifications. He was responsible for coordinating field and office staff and outside consultants as well as preparing and presenting traffic-related topics to management, staff, and at industry conferences.

Project Summary:

Project Engineer for Florida DOT D1 On-Call Lighting and Traffic Signal Design Services. Wi-Skies is a sub on a Districtwide master contract with Florida DOT District 1, where we provide a variety of high-level activities including providing estimates and design reviews as necessary. We are charged with developing program level scopes of work and quantities for various lighting and traffic signal improvements throughout the District, including re-surfacing projects which will address various safety issues related to lighting and traffic signal operations. To date, Wi-Skies has reviewed and estimated over 55 intersections and 30 miles of roadway improvements across the district. Michael was in charge of creating the traffic signal scope including upgrades to current MUTCD standards, recommendations on intersection operational components, added and/or replaced components, and developing intersection quantities for each existing traffic signal project site, as well as report documentation.

Project Engineer for Roosevelt Highway Lighting and Traffic Signal Design (Union City, GA) As part of a beautification and safety update project, the City of Union City, GA is installing sidewalks and pedestrian lighting along Roosevelt Highway (US 29), which is the main roadway through the City. The new lighting is along both sides of the 2.1 mile long corridor from Beverly Engram Parkway to Highpoint Rd and on one side from Highpoint Rd to Stonewell Tell Rd, as the other side is not yet developed. Wi-Skies worked diligently with the City to choose a pole and luminaire which would both adequately and cost effectively light the sidewalk along the corridor, but also would not present a glare concern to the drivers along Roosevelt Highway. In addition to providing full photometric calculations and lighting plans for the City to bid, Mike also developed plans for a new traffic signal to be installed at the intersection of Roosevelt Highway and Dixie Lake Rd. We also developed plans to modify the existing traffic signal at the Highpoint Rd intersection to accommodate a new dedicated right turn lane. To limit clutter in the quadrant where the service point was to serve the traffic signal at Dixie Lake and the adjacent lights, we developed a detail to combine the meters, disconnects and lighting controller on one pole.

Lead Engineer for Traffic Signal Design US 169 and I-35 DeSoto, IA. Mike was the lead engineer for the design of ramp terminal traffic signal installations at the two intersections for the US 169 and I-35 interchange. He was responsible for all data collection for the existing equipment and as-built plans, and he assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes.

Lead Engineer for Traffic Signal Design, Roadway Lighting, and Signing Design C Street and US 30 Cedar Rapids, IA. Mike was the lead design engineer responsible for traffic signals and signing plans in-house at the interchange of C Street and US 30. Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled the design plan sheets for both the traffic signal and signing portions of the projects. The traffic signal plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes. Signing plan sheets included sign layout and location, sign details, quantities, and general project notes. He was responsible for overseeing consultant lighting design plans.

Lead Engineer for Traffic Signal Design Dubuque St and I-80 Iowa City, IA. Mike was the lead engineer for the design of ramp terminal traffic signal installations at the two intersections for the Dubuque St and I-80 interchange. Mike was responsible for all data collection for the existing equipment and as-built plans, and he assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes.

Contact Information:

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Education:

- ◆ B.S. Civil Engineering – South Dakota State University, 1986
- ◆ M.S. Transportation Engineering – Iowa State University, 1992

Professional

Engineering Licenses:

- ◆ Georgia #050089
- ◆ Iowa #12101
- ◆ Kentucky # 38273

Professional Societies:

- ◆ Member - Institute of Transportation Engineers (ITE)



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Lead Engineer for Traffic Signal Design, Roadway Lighting, and Signing Design 53rd St and I-74 Davenport, IA. Mike was the lead design engineer, responsible for traffic signals and signing plans in-house at the interchange of 53rd St and I-74. Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled design plan sheets for both the traffic signal and signing portions of the projects. The traffic signal plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes. Signing plan sheets included sign layout and location, sign details, quantities, and general project notes. He was responsible for overseeing consultant lighting design plans.

Lead Engineer for Traffic Signal Design US 65 and I-80 Altoona, IA. Mike was the lead engineer for a new intersection installation of traffic signals at both ramp terminal intersections at an interchange US 65 and I-80 interchange. Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes.

Lead Engineer for Traffic Signal Design IA 415 and NW 66th Ave Saylorville, IA. Mike was the lead design engineer, and he was responsible for coordination with the road design engineers on new roadway geometrics. Mike laid out the proposed traffic signal installation for the intersection, he supervised a CADD technician on the assembly of the plans, and Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes at the traffic signal installation.

Lead Engineer for Traffic Signal Design IA 22 Mason City, IA. Mike was the lead engineer on this project which involved the removal and replacement of traffic signals at seven intersections along IA 122. Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes at the traffic signal installation. Mike also used this project to instruct an engineer in training and a CADD technician in developing this plan set.

Lead Engineer for Traffic Signal Design US 63 and E. Mary St Ottumwa, IA. Mike was the lead design engineer for this traffic signal modification. He coordinated with the district staff and the road design engineers on the new intersection geometrics. He supervised a CADD technician and an engineer in training on the assembly of the design plans. Mike completed the traffic signal plans, including layout, wiring, phasing, timing, and quantities.

Lead Engineer for Traffic Signal Design. US 18 and N Main St Algona, IA. Mike was the lead designer for a new intersection installation of traffic signals. The project also involved coordination and interconnecting with the nearby RR crossing. Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes.

Lead Engineer for Traffic Signal Design NE 54th Ave on IA 415 Des Moines, IA. Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes.

Lead Engineer for Traffic Signal Design US 30 and US 63 Tama, IA. Mike was the lead designer for a new intersection installation of traffic signals at both ramp terminal intersections at an interchange in Tama, IA. Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes.

Lead Engineer for Traffic Signal Design Roemer Ave and US 63 Ottumwa, IA. Mike was the lead designer for a new intersection installation of traffic signals at Roemer Ave and US 63. Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes.

Lead Engineer for Traffic Signal Replacement Design. US 69 Ames, IA. Mike was the lead designer for the removal and replacement at three intersections along the US 69 corridor. Mike was responsible for all data collection for the existing equipment and as-built plans. He assembled design plan sheets for each of the project locations. These plan sheets included traffic signal layout, wiring diagrams, phasing, timing, quantities, and general project notes. He was also the lead inspector during the construction of these new traffic signal installations.

Lead Engineer for Traffic Signal Replacement Design IA 14 Knoxville, IA. Mike was responsible for four intersections that required a complete replacement of all necessary traffic signal installation components. Mike gathered all as-built information, laid out all new traffic signal installations, and was responsible for all traffic signal timing, phasing, wiring, diagrams, quantities, and project estimate.

Traffic Signal Engineer for Traffic Signal Replacement project, Lincoln, NE. Mike assisted the lead engineer in the field review, as-built plan documentation, and final design plan preparation for this project, which involved numerous traffic signalized intersections that were upgraded to new poles, heads, a new controller, and other assorted hardware.

Safety Circuit Rider Program Coordinator – Iowa State University - Center for Transportation Research and Education Mike was responsible for preparing and presenting traffic safety workshops to local government officials and staff. Mike also organized, planned, administered, and helped present traffic safety conferences. Mike was responsible for assisting local government professional organizations with planning traffic safety programs for their meetings and conferences. He surveyed clients on their present traffic

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safety conditions and their desire for training concerning traffic safety. He conducted safety research in traffic control for construction merge areas.

Traffic/Transportation Engineer – Kirkham Michael & Associates – Urbandale, Iowa Mike was responsible for marketing, project management, and design. He was responsible for establishing and maintaining clients, proposal tracking, and preparation of proposals. Mike was responsible for project management activities, including determining a budget and schedule, monitoring tasks completed by other employees, handling contacts with the client on a routine basis, and dealing with the project contractor. Mike designed several projects, including traffic signals, pavement markings, signing, and roadway geometrics. The design included the preparation of the project manual (bid forms, contract documents, specifications, etc.), completion of the project plans, and conducting a letting and awarding of contracts. Also, have completed numerous traffic studies and corridor studies.

Traffic/Transportation Engineer – JBM Engineers and Planners – Des Moines, Iowa Mike was the project manager for several projects in the Des Moines office. Project experience includes traffic signal design, traffic studies, corridor studies, IDOT TEAP program, transportation modeling, pavement markings, signing, and roadway geometrics. Management experience includes preparing project budgets and scheduling, supervising employees during project tasks, and maintaining a future manpower needs assessment for the office.

Lead Engineer – Iowa Department of Transportation – Office of Transportation Inventory – Iowa Mike was responsible for weigh-in-motion installation and data collection for numerous locations in Iowa. He was the lead engineer in determining equipment locations, installation, and data collection upon completing the installation. Mike was responsible for assembling all data collected and reporting to the FHWA. He coordinated with field personnel on equipment issues, data collection needs, and ongoing maintenance.

Lead Estimator – Iowa Department of Transportation – Office of Transportation Inventory – Ames, Iowa Mike was the lead estimating engineer for numerous construction projects submitted for letting. He responded to requests for information from contractors and followed up with responses from design personnel responsible for the design plans. Mike provided computer-generated historical pricing to the staff in the office. He also assisted in the bid-letting process and generated reports as requested by the supervisor on various aspects of the bid-letting.

Lead Estimator – Iowa Department of Transportation – Office of Transportation Inventory – Ames, Iowa Mike was the lead estimator of various construction projects to be submitted for letting. Mike began by assisting the lead engineer with various components of a project estimate and submitting them for their review. He assisted in the bid-letting process and answered questions from contractors before the letting.

Lead Inspector – Iowa Department of Transportation – Office of Transportation Inventory – West Liberty, Iowa Mike was the lead inspector on the West Liberty bridge replacement project. He supervised summer help and an engineering coop student on inspection requirements and material testing needs. He also documented all work completed during construction for contractor pay.

Lead Inspector – Iowa Department of Transportation – Office of Transportation Inventory – Wayland, Iowa Mike performed the duties of the lead inspector in all day-to-day field verifications of the project's construction. He provided assistance to an engineering coop student on inspection requirements. He also documented all work completed during construction for contractor pay.

Transportation Engineer Associate – Iowa Department of Transportation – Office of Transportation Inventory – Nichols, Iowa Mike assisted the lead inspector in all day-to-day field verifications of the project's construction. He provided assistance to an engineering coop student on inspection requirements. Mike also completed all materials testing during construction.

Transportation Engineer Associate – Iowa Department of Transportation – Office of Transportation Inventory – Kalona, Iowa Mike assisted the lead inspector in all day-to-day field verifications of the project's construction. Mike also completed all materials testing during construction.

Transportation Engineer Associate – Iowa Department of Transportation – Office of Transportation Inventory – Ames, Iowa Mike was instrumental in initializing Weigh-In-Motion calibration and data collection procedures. Analysis of traffic data collection techniques currently being used. Investigation into the use of traffic data by other offices

Transportation Engineer Associate – Iowa Department of Transportation – Office of Contracts – Ames, Iowa Mike estimated construction project costs. He utilized the Bid Analysis and Management System (BAMS) to establish bid item estimates, based on historical information. He answered questions from contractors and suppliers regarding future construction projects and assisted in conducting the construction and maintenance lettings. He also reviewed bids for acceptance or rejection and assembled various reports for the individual lettings.

Transportation Engineer in Training – Iowa Department of Transportation – Resident Construction Office – Mount Pleasant, Iowa Mike managed the inspection of construction projects, which included testing of materials, setting field grades and alignments, and documentation of construction activities. He also supervised and allocated work to co-op students and summer employees.