



PROFILE

Experienced professional with over 30 years dedicated to highway infrastructure engineering, management, and research. Highly skilled at leading complex projects involving multi-disciplinary staff, including civil engineers, IT professionals, traffic engineers, statisticians, data scientists, and subject matter experts in various fields.

Successful leadership of nationally and regionally significant engineering projects involving pavement, bridges, and other assets. Demonstrated capabilities in the principles and practices of highway infrastructure engineering and management methodologies. Adept at implementing an inclusive approach for seeking direct and continuous input and feedback from appropriate stakeholders.

CONTACT

PHONE:
443-788-7560

EMAIL:
Jonathan.Groeger@iengineering.com

LOCATION:
Annapolis, Maryland

JONATHAN GROEGER

Vice President, Engineering and Technology

EDUCATION

University of Maryland Global Campus

2004: Master of Business Administration with an emphasis on executive management.

University of Maryland, College Park

1989: Bachelor of Science, Civil Engineering

WORK EXPERIENCE

iENGINEERING Corporation; Transconomy, LLC

Vice President, Engineering and Technology September 2022 to Present

Responsible for technical leadership of infrastructure asset management and data management IT projects. Involved in all aspects of data management including extracting, transforming, loading and data dissemination practices.

Wood Environment & Infrastructure Solutions, Inc.

Principal Engineer/Principal Project Manager

January 1993 to August 1999 and January 2005 to March 2022

Program Manager on transportation asset management projects at the national, state, and municipal level. Business development lead for office. Group Leader in charge of engineering staff.

Axiom Decision Systems, Inc

Vice President

September 1999 to December 2004

In charge of pavement engineering and management contracts for the firm. Business development lead. Mentor to junior staff.

Texas Research and Development Foundation (now known as

AgileAssets)

Senior Engineer

September 1988 to December 1993

Senior engineer working on nationally significant project - Strategic Highway Research Program. Mentor to junior staff.

Selected Experience

- Contractor Director and Client Account Manager for multiple Federal Highway Administration (FHWA) programs. Program Manager/Project Manager for most projects. These projects included managing civil engineers, IT professionals, traffic experts, data scientists, subject matter experts, subcontractors and a mix of on-site and off-site staff to build coalitions to win and perform projects. Produced results in a time and cost-efficient manner and achieved superior Contractor Performance Assessment Ratings System (CPARS) scores.
- Project Manager responsible for facilitating Data Management and Governance workshops that included 12 state DOTs and a Metropolitan Planning Organization. This included personally making the meeting arrangements for the two workshops, assisting with travel arrangements, meeting facilitation, development of the 508 compliant report (including layout, development, editing, and final publication), and follow-up with FHWA. The end result of these workshops for each individual was a State-specific plan for how to conduct a data self-assessment.
- Led an innovative, first-of-its-kind bridge performance Transportation Pooled Fund project to combine bridge inspection and other data on 600,000 bridges to develop performance models for element-level bridge inspections. A summary of this project can be found [here](#).
- Program Manager for the FHWA LTPP Technical Support Services Contract (TSSC). This multi-decade and multi-million-dollar project has resulted in the world's largest pavement asset performance research database. Directly involved with the project since 1988, i.e., 34 years in total. Co-author of the LTPP Strategic Plan, which resulted in the idea for the InfoPave web portal. Produced innovative results, including [InfoPave](#), [InfoMaterials](#), and [InfoBridge](#). The team consisted of civil engineers, traffic engineers, IT professionals (database and programming), data scientists, and subject matter experts. Led three LTPP TSSC projects with a worth of \$14.5M, \$12M, and \$9M, respectively.
- For FHWA, was the PM for the FHWA project, in partnership with the University of Maryland, that discovered the NASA MERRA weather resource and developed a method to utilize the data for infrastructure management purposes. This dataset has been incorporated in the Pavement ME software, LTPP dataset, and LTBP datasets. The report can be found [here](#).
- Client Account Manager for Maryland DOT (MDOT) State Highway Administration (SHA). Managed all aspects of program delivery on transportation asset management (TAM) for 22 years. Provided innovative solutions based on the client needs, including interactive tools to streamline operations. Led teams of civil engineers, IT professionals, data scientists, and engineering technicians with office and client-based personnel. Adapted and responded to shifting client needs by implementing strategic organizational planning to maintain superior service. Developed or assisted with several strategic plans (asset management, materials management, and pavement management/design) to guide SHA activities.

- National Transportation Asset Management Lead. Worked with the following States on TAM: Arizona, Connecticut, Colorado, District of Columbia, Iowa, Illinois, Kansas, Louisiana, Maryland, Minnesota, New Hampshire, New Mexico, New York, Oregon, South Carolina, Tennessee, and Vermont.
- Participated on the leading edge of national TAM implementation with the FHWA. When the FHWA required a pilot study to develop the first TAMPs, I led a diverse team of subject matter experts, financial planners, and infrastructure experts that won and executed the project. TAMPs were created for the Louisiana, Minnesota, and New York DOTs. This project involved intense cooperation with FHWA, all levels of the DOTs including executives, other contractors, and the project team. Developed a template that was used by several States to establish their respective federally mandated TAMP. Led two national webinars to disseminate results.
- For FHWA, developed strategic plans for ten States to enhance their TAM efforts. Some reports can be found [at this URL](#). These reports focused on agency-wide TAM implementation that involved all levels of the organization, including Senior Executives. Held two meetings with the Senior Executives for each State to acquire their opinions regarding TAM and to disseminate results. Each of these plans had data management and governance as a major component.
- Assisted several other States in developing their TAMPs. This included developing inventory and condition, performing financial planning at the DOT-level, developing investment strategies, and conducting risk management analysis for pavement and bridges. All these projects led to the development of the federally required TAMP and subsequent certification of the TAMP by FHWA.
- As PM and technical expert, performed several TAM implementation projects for States. This included strategic, communication, and training planning, as well as the development of data management plans and implementation of tools to advance TAM within each agency.
- For FHWA, served as PM for a series of projects, to develop and verify the National Pavement and Bridge performance rules eventually promulgated in 23 CFR 490, "National Performance Management Measures; Assessing Pavement Condition for the National Highway Performance Program and Bridge Condition for the National Highway Performance Program." These included the FHWA Infrastructure Health (\$0.4M), Interstate Condition 1 (\$1.4M), and Interstate Condition 2 (\$0.75M). The results of the Interstate 1 and 2 studies can be found [at this URL](#). The reports can be found [here](#), [here](#), and [here](#). Led the AASHTO Annual Meeting workshop, where results of the infrastructure health study were reported to DOT Executives.
- **National Academy of Sciences, Transportation Research Board**
 - 2015-2021 Chair, Committee on Pavement Evaluation (AKP10)
 - 2004-2015 Member, Standing Committee on Pavement Evaluation
 - 2015-2021 Member, Pavement Executive Committee (AKP00)
 - 2019-2022 Managing Editor, Transportation Research Record