



KAI WAECHTER P.E.
SENIOR CONSULTANT

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Mr. Kai Waechter is a Civil Engineer with over nine years of diverse experience in project management, design, and forensic engineering. He brings a strong background in construction oversight, non-destructive testing, quality assurance, and CAD design, complemented by expertise in personnel management and technical proposal development.

Prior to ESi, Mr. Waechter served as an associate overseeing Federal Railroad Administration (FRA) projects across the Midwest. He has managed federally funded initiatives, including disaster reconstruction and Build Back Better EDA grants, leading projects from proposal and audit stages to final execution and review.

With a thorough understanding of engineering standards and construction practices, Mr. Waechter continues to deliver reliable, technically sound solutions across a broad range of civil and structural engineering challenges.

Areas of Specialization

Construction Safety & OSHA Compliance
Federal Code Regulations
Damage Evaluation & Repair Design
Transportation Engineering
Railroad Engineering
Non-Destructive Testing Practices
Project Management
Grants Management
Bridge Structure Evaluations
Infrastructure Asset Assessments

Education

M.S., Civil Engineering, Structural Concentration. Drexel University. 2017
B.S., Civil Engineering. Drexel University. 2017

Licenses/Certifications

State of New Jersey P.E. License # 24GE05996400

Professional Affiliations/Honors

American Society of Highway Engineers
American Society of Civil Engineers

Chi Epsilon Civil Engineering Honors Society

Positions Held

Engineering Systems Inc., Lincoln Park, NJ

Senior Staff Consultant, 2025 – Present

Booz Allen Hamilton, North Haven, CT

Associate, 2023 – 2025

H&L Environmental Services, LLC, Philadelphia, PA

Civil Engineer, 2020 – 2023

Advanced Infrastructure Design, Inc., Hamilton, NJ

Civil Engineer, 2017 – 2020

Bohler Engineering, Philadelphia, PA

Engineering Intern, 2015 - 2016