

Kai Waechter

PE
Senior Consultant



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, transportation design, structural analysis, railroad design and roadway safety design, complemented by expertise in construction 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.

Education

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

BS, Civil Engineering, Drexel University, 2017

Licenses & Certifications

- State of New Jersey PE License No. 24GE05996400
- State of Massachusetts PE License No. 60424
- State of Connecticut PE License No. PEN.0038849
- State of Pennsylvania License No. PE098541
- Section 107 Drone Pilot Certification
- FARO Scanner Certification
- Certified Overhead Crane & Hoist Inspector
- Certified Boom & Scissor Lift Operator
- OSHA 30

Contact Information

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ESi Lincoln Park

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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

Positions Held

Engineering Systems Inc., Lincoln Park, NJ

- Senior 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

Professional Affiliations/Honors

- American Society of Highway Engineers Member
- American Society of Civil Engineers Member
- Chi Epsilon Civil Engineering Honors Society Member