



David P. Kierpiec, M.S., E.I.T.
SENIOR STAFF CONSULTANT

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Mr. David P. Kierpiec specializes in forensic inspections and retrofit designs of structures damaged by fire, wind, and tree/car impacts. He has performed evaluations of deteriorated structures, including both wood/steel-framed balconies, wood-framed staircases, wood-framed residential buildings, and steel/concrete-framed commercial buildings. Mr. Kierpiec has bridge design and assessment experience, along with thorough knowledge of the latest AASHTO code. He also has teaching experience from being a Teaching Assistant of reinforced concrete at the University of Illinois at Urbana-Champaign.

Areas of Specialization

Bridge Condition Assessment
Bridge Analysis & Design
Residential/Commercial Damage Assessment
Repair Design
Scaffolding System Design
Shoring Design
Structural Analysis & Design

Education

M.S., Civil Engineering (Structural). University of Illinois at Urbana-Champaign. 2022.
B.S., Civil Engineering (Structural). University of Illinois at Urbana-Champaign. 2021.

Licensed Professional Engineering Intern

State of Illinois, License No. 061.041346

Professional Affiliations

American Society of Civil Engineers (ASCE), Member.
American Institute of Steel Construction (AISC), Member
Structural Engineering Institute of ASCE (SEI), Member.
Structural Engineers Association of Illinois (SEAOI), Member.

Awards and Honors

CPS Wentcher Scholar, Class of 2021.
Chicago Engineers' Foundation Scholar, Class of 2021.
Concrete Education and Research Foundation Scholarship Recipient, 2020.

Deep Foundation Institute (DFI) Scholarship Recipient, 2019.
Chicago Association of Spring Manufacturers (CASMI) Scholarship Recipient, 2018, 2019.
Engineering Dean's List, 2017 – 2021.
CEE Student Ambassador, 2020 – 2021.
CEE Student Committee (CSC) Member, 2018 – 2020.

Training and Certifications

Aerial Boomlift 3b & Scissor Lift 3a Operator Certification
OSHA 10-Hour Construction Safety Training
OSHA 30-Hour Construction Safety Training
OSHA Confined Space Training
Scaffold (Supported/Suspended) User and Erector Hazards Training
Transportation Worker Identification Credential (TWIC) Card

Positions Held

Engineering Systems Inc., Aurora, Illinois

Senior Staff Consultant, 2025 – Present
Staff Consultant, 2023 – 2024

Bollinger, Lach & Associates, Inc., Itasca, Illinois

Structural Engineer, 2022 – 2023

University of Illinois, Champaign, Illinois

Teaching Assistant for CEE 461: Reinforced Concrete, 2021 – 2022

Bollinger, Lach & Associates, Inc., Itasca, Illinois

Structural Engineering Intern, Summer 2021

Engineering Systems Inc., Aurora, Illinois

Structural Engineering Intern, Summer 2020

University of Illinois, Champaign, Illinois

Course Assistant for TAM 210/211: Statics, 2019 – 2020

Teaching & Technical Presentations

Riddle, J., **Kierpiec, D.** "A Structural Engineer's Role in Tornado, Fire, and Scaffolding Disasters." ASCE General Meeting, University of Illinois at Urbana-Champaign Student Chapter. November 2024.
Riddle, J., **Kierpiec, D.** "An Introduction into the World of Forensic Engineering." ASCE General Meeting, University of Illinois at Urbana-Champaign Student Chapter. February 2024.