



EDUCATION

- California Polytechnic State University
 - Bachelor of Science, Architectural Engineering, 2016
 - Master of Science, Architecture, specialization in architectural engineering, 2016

PRACTICE AREAS

- Bridges and Civil Infrastructure
- Failure/Damage Investigation
- Structural Analysis
- Repair and Rehabilitation

REGISTRATIONS

- NHI Course 130055 - Safety Inspection of In-Service Bridges
- NHI Course 130078 - Fracture Critical Inspection Techniques for Steel Bridges
- Professional Engineer in IL
- Society of Professional Rope Access Technicians (SPRAT) - Level I

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction
- Structural Engineers Association of Illinois

CONTACT

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EXPERIENCE

Since joining WJE in 2016, William Rosenblatt has been involved in the assessment, evaluation, and rehabilitation of multiple steel and concrete structures. This work has included special and fracture critical bridge inspections, bridge instrumentation monitoring, element-level inspections, and structural analysis. Mr. Rosenblatt is a member of WJE's Difficult Access Team, specializing in accessing and identifying and evaluating as-built conditions on buildings and bridges.

Mr. Rosenblatt also has performed structural analysis and finite element analysis on several steel structures. He has analyzed linear, nonlinear, torsional, and buckling behavior to investigate failures and to study the feasibility of proposed structural modifications. Mr. Rosenblatt has collaborated his analytical modeling results with field verification and testing on several occasions.

REPRESENTATIVE PROJECTS

Bridges and Civil Infrastructure

- Perrine Bridge Mitigation - Twin Falls, ID: Corrosion assessment and load rating of steel truss arch bridge
- Sherman Minton Bridge - New Albany, IN: In-depth and fracture-critical inspection of steel tied arch using industrial rope access
- Iowa 136 Over the Mississippi River - Clinton, IA: In-depth, element-level, and fracture-critical inspection of steel truss bridge
- Iowa-Illinois Memorial Bridge – Bettendorf, IA: Special inspection of floor beam and stringers using industrial rope access
- Oregon Department of Transportation Culvert Load Rating: Load rating refinements of culverts with deficient rating factors
- Mississippi Complex Bridge Inspections - Various Counties, MS: Inspection and load rating of in-service deteriorated timber, steel, and concrete bridges
- Lake Shore Drive Girder Fracture - Chicago, IL: Field investigation and repair of fractured beam due to corrosion and fatigue

Failure/Damage Investigations

- Mining Facility - North America: Investigation and modeling of collapsed steel support structure
- Union Station - Chicago, IL: Investigation and repair of steel and concrete plenum above rail tracks
- Cable Net Walls – Chicago, IL: Structural analysis of cable net wall glass breakage
- Florida International University Pedestrian Bridge Collapse - University City, FL: Investigation and specimen testing of concrete truss bridge

Structural Analysis

- Sunshine Bridge Barge Impact Repairs – St. James Parish, LA: Structural modeling of jacking procedure to replace damaged bottom truss chord
- Poplar Street Complex Bridge - St. Louis, MO: Correlation of survey data to structural modeling results for deck replacement project
- Aon Center - Chicago, IL: Feasibility study and finite element modeling of column removal for proposed observation deck
- One North State - Chicago, IL: Analysis and design of structural reinforcement for 1900s steel-framed building
- Lake Forest Pedestrian Bridge, Lake Forest, IL: Structural analysis of pedestrian suspension bridge

Repair and Rehabilitation

- U.S. Air Force Academy Cadet Chapel - Colorado Springs, CO: Recladding design and testing of aluminum and glass facade
- New Harmony Toll Bridge - Crossville, IL: Industrial rope access condition assessment and feasibility study of closed toll bridge
- 300 South Riverside- Chicago, IL: Plaza structural framing modifications and repairs
- 55 East Erie Condominium – Chicago, IL: Design and construction administration of concrete facade and balcony repairs
- Barry Condominium - Chicago, IL: Design and field testing of facade access equipment
- The Old Post Office - Chicago, IL: Rehabilitation of steel and concrete plenum above rail tracks