PERSONNEL QUALIFICATIONS

Adrian Soltys | Associate III

EDUCATION

- Rensselaer Polytechnic Institute
  - Bachelor of Science, Mechanical Engineering, Minor in Economics, 2018

PRACTICE AREAS

- Mechanical Engineering
- Balance Testing and Analysis
- Computer-Aided Drafting
- Gear Assessment/Design
- Inspections
- Finite Element Analysis
- Heavy Movable Structures
- Design
- Bridges
- Rail Systems Engineering

REGISTRATIONS

- Professional Engineer in MD and NY

CONTACT

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EXPERIENCE

Since joining WJE in February 2019, Adrian Soltys has participated in many movable bridge projects. He has gained experience in various aspects of movable bridge machinery, including inspections of machinery, strain gauge balance testing, and balance calculations. Prior to joining WJE, Mr. Soltys gained experience working at several firms, where he participated in projects including the upgrade of the propulsion system of a ferry vessel, the repair of a ferry slip mechanical system, the restoration and upgrade of a bridge water pumping system, and the installation of control panels based on programmable logic controllers.

REPRESENTATIVE PROJECTS

- O'Rorke Bascule Bridge: Assistance with site work to modify the bridge seating, including installing shims near leaf live load reactions
- Asset Management Inspections - Florida Department of Transportation District 4: Mechanical inspections of movable bridges and developed reports of findings
- New York State Department of Transportation: Mechanical inspections of movable bridges and developed reports of findings
- Independence and Liberty Bridges over the Saginaw River - Bay City, MI: Mechanical inspections of movable bridges and participated in the update of the O&M Manuals
- Isabel Holmes Bascule Bridge on US-74 over NE Cape Fear River - Wilmington, NC: Strain gauge balance testing conducted as part of bridge preservation project
- Pennington Avenue over Curtis Creek - Baltimore, MD: Performed mechanical inspection of movable bridge and developed report of findings
- Burlington-Bristol Lift Bridge - Burlington, NJ: Strain gauge balance testing as part of a painting contract
- Hog's Back Swing Bridge Rehabilitation - Ottawa, ON, Canada: Submittal and shop drawing review during the construction phase of the project
- North Hero Grand Isle Drawbridge - Grand Isle, VT: Balance calculations to support construction of a replacement bascule bridge
- Oceanic and Ocean Avenue Bridges - Monmouth County, NJ: Mechanical inspections of movable bridges and developed reports of findings
- Barter's Island Swing Span - Boothbay, ME: Submittal and shop drawing review during the construction phase of the project
- Harlem River Lift Span - New York, NY: Strain gauge balance testing as part of the ongoing construction project
- Rehoboth Avenue Bascule Bridge - Rehoboth Beach, DE: Strain gauge balance testing as part of the ongoing construction project
- Savannah Road Bascule Bridge - Lewes, DE: Strain gauge balance testing as part of the ongoing construction project
- Voinovich Park Pedestrian Bascule Bridge - Cleveland, OH: Submittal, shop drawing review, and counterweight fill fix research during the construction phase of the project
- Route 250 over Erie Canal Lift Bridge - Fairport, NY: Submittal and shop drawing review during the construction phase of the project
- Danziger Lift Bridge - New Orleans, LA: Bearing replacement research as part of machinery rehabilitation project
- Tacony-Palmyra Bascule Bridge - Palmyra, NJ: Strain gauge balance testing as part of the ongoing painting contract
- Indianapolis Boulevard Bascule Bridge - East Chicago, IN: Strain gauge balance testing as part of the ongoing construction phase of the project
- University Avenue Bascule Bridge - Philadelphia, PA: Mechanical inspection of movable bridge and developed reports of findings
- Michigan Avenue Vertical Lift Bridge - Buffalo, NY: Development of counterweight rope replacement procedure and performance of rope length calculations as part of replacement project
- Loxahatchee River Bascule Bridge - Stuart, FL: Balance calculations to support rehabilitation of the bridge