

Michael Makwinski

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SKILLS

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|----------------|------------|------------------|-------------------|
| • Microstation | • Mathcad | • PennDOT Design | • Accountability |
| • Open Roads | • Revit | • Suite | • Organization |
| • AutoCAD | • Bluebeam | • SAP2000 | • Code Compliance |
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EMPLOYMENT EXPERIENCE

Van Cleef Engineering Associates, Freehold, NJ

September 2019 – November 2021

Structural Engineer II

- Develop designs, details, quantities and cost estimates in accordance with AASHTO, NJDOT, NJTA, PennDOT and various other client specifications.
- Coordinate design of PennDOT SR 4040 and Glendale bridges which included structural plans, design calculations, item price backup, and final deliverables for all phases of the submission process.
- Providing preliminary design calculations of SR 4040 such as deck and beam design.
- Participate in meetings with PennDOT regarding construction easements, general project parameters and environmental/permitting concerns.
- Development of final deliverables for Locust Lane Bridge.
- Attending meetings with Mercer County and affected parties regarding post construction concerns of Alexander Street and Locust Lane bridges.
- Reviewing fabrication drawings ranging from culvert lifting calculations to concrete beam shear and moment capacities.
- Assisting on sign structure inspection for cracking in casings and along overhanging portions.
- Generating parcel maps for jurisdictional clarification between the Garden State Parkway and Harbor Road in Egg Harbor Township.
- Inspection of Duck Farm Bridge site for measurements to bolster limited as-built information.
- Work on P100.413, P100.579, T100.587 providing plans, design calculations, and cost estimates for relevant milestones of phase A through C submissions.
- Developing early-stage bridge S-14 drafting and design.
- Rehabilitation design and plan preparation for a decommissioned railroad pier on the Arthur Kill Strait.
- Providing preliminary bridge replacement plans to a private client in Pennsylvania.
- Emergency rehabilitation plan development of the Monmouth Street bridge over Assunpink Creek.

Advanced Infrastructure Design, Hamilton, NJ

March 2019 – July 2019

Civil Engineer

- Performed non-destructive testing utilizing ground penetrating radar for analysis of roadway defects.
- Managed intern workflow during large scale analysis of road networks and provided assistance with database throughput.
- Facilitated production of reports based on both destructive and non-destructive testing with recommendations as to possible rehabilitation work that could be complete during future construction cycles.

Smart Infrastructure Lab, Storrs, CT

March 2018 – May 2018

Research Assistant

- Arranged data acquisition testing equipment and specimens for post-graduate research.
 - Facilitated testing of ultra-high performance concrete repair variations on full sized bridge girder assemblies.
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EDUCATION

University of Connecticut, Storrs CT

August 2014 – May 2018

Bachelor of Science in Engineering

Concentration: Civil Engineering

Fundamentals of Engineering Exam: Passed 2018