

Alex E. Sieler

Forensic Engineering Expertise

Structural Analysis/Design

Review appropriate documents, including project plans and specifications as it relates to the building structure for purposes of failure analysis. Examples of past work includes analysis of structures (concrete and steel) and various building components (doors, roofing, exterior and interior cladding) as well as damage assessment of building structures.

Origin & Cause

Determine the source and responsible party or element related to the failure of a structural or architectural element, or water damage in a building. Examples of past work include failure of roofing and wall cladding causing moisture entry, humidity and condensation related losses.

Construction Accidents/Slip and Fall

Determination of circumstances resulting in an accident. In-depth knowledge of the construction contracting process and the building codes is often the deciding factor in determination of cause and responsibility. Examples of past work include slip, trip, and fall cases related to interior and exterior means of egress, stairs, and access areas.

Inspection and Evaluation of Roofing Systems

This includes steep and low slope roofs as well as various types of roofing materials. Past work involved offering opinions and repairs related to installation deficiencies and storm-related damages, including for hail and wind.

Qualifications & Trainings

- IIBEC Great Lakes Conference 2023 Fall Technical Session, October 2023
EPDM Punchlist and Repairs, Thermoplastic Punchlist and Repairs, SBS/APP Punchlist and Repairs, Coatings Punchlist and Repairs

Education

Master of Science Degree in Engineering
University of Toledo, Toledo, OH
August 2017

Bachelor of Science in Civil Engineering
University of Toledo, Toledo, OH
December 2011
Graduated Magna Cum Laude

Licenses & Certifications

PE - Professional Engineer
Licensed by the State of Ohio – Number PE.90609
Licensed by the State of Michigan – Number 6201314992
NCEES Certified EIT, OSHA 30

Employment History

Forensic Engineer
Nederveld, Inc.
2023 - Present

Duties include forensic engineering analysis relating to building pathology, structural and enclosure damage due to storm damage (wind and hail).

Facilities Project/Safety Engineer

Wacker Chemical, Adrian, MI

2018 - 2023

Duties included the review, planning and project execution for Safety and Infrastructure projects at Wacker. Provide consultation for facility designs/operations, as well as develop solutions to any safety/infrastructure problems. Maintenance-related projects, documentation, and scheduling. Consulted with Operators to find ways to improve/ease their job conditions. Managed janitorial, snow removal and landscaping site services. Projects included Buildings, Roadways, Access Platforms, Industrial Ventilation, Laboratories, Server Rooms, Safety, Offices, Secure Screening Entry, Warehouse dock/rack/conveyors, and operator ergonomics.

Engineer

Middough Inc., Holland, OH

2016 - 2018

Duties included consulting directly with clients to determine the scopes of work for each project. Coordinate the design, engineering and project management (for Civil/Structural department) for a variety of structural steel, maintenance and sewer projects. Complete engineering analysis, as Department Leader, on large projects. Apply creative solutions within the existing conditions of a 100+ year old Refinery Facility. Track and manage project hours and coworkers to complete quality tasks on time. Complete field work and assist in surveys. Abide by unique Refinery safety/compliance rules/specifications to help ensure the safety of myself and others. Assess work site conditions to ensure proper PPE and engineering controls are utilized.

Project Engineer

Barnhart Crane & Rigging, Monroe, MI

2014 - 2016

Duties included completing the engineering portion of Rigging and Heavy Haul projects. This required training for the associated codes and hands on experience which was completed by doing controlled environment simulated projects for approximately four months. Visited a variety of project sites, varying from local gas power plants to nuclear power plants. Utilized company equipment and made decisions to maximize project profit margins and ensure safely designed solutions. Coordinated the design and fabrication of new equipment required for projects. Utilized and contributed to company SOPs required to complete project work.

Engineer

Middough Inc., Monroe, MI

2013 - 2014

Duties included consulting directly with clients to determine the scopes of work for each project. Coordinated the design, engineering and project management (for Civil/Structural department) for a variety of structural steel, maintenance and sewer projects. Completed engineering analysis, as Department Leader, on large projects. Applied creative solutions within the existing conditions of a 100+ year old Refinery Facility. Tracked and managed project hours and coworkers to complete quality tasks on time. Completed field work and assisted in surveys. Abided by unique Refinery safety/compliance rules/specifications to help ensure the safety of myself and others.

Assessed work site conditions to ensure proper PPE and engineering controls were utilized.

Engineer I
SSOE Group, Troy, MI
2012 - 2013

Collaborated with each team to solve issues and complete designs. Analyzed cellular towers and wrote technical reports. Produced 2-Dimensional CAD drawing sets for automotive plants. Modeled Automotive plants in 3-Dimensions, including 3D scan clearance checks.

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