

Kyle Mulry

Forensic Engineering Expertise

Structural Analysis/Design

Review appropriate documents including documents that relate to the building structure for purposes of failure analysis and extent of resulting damages. Examples of past work includes failure analysis of collapsed structures (steel and wood), and various building components (windows, roofing, exterior and interior cladding) as well as damage assessment of building structures after a fire.

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.

Inspection and Evaluation of Roofing Systems

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

Education

Bachelor of Science Degree in Civil Engineering
University of Wisconsin - Madison
2016

Licenses & Certifications

PE - Professional Engineer
Licensed by the State of Minnesota - Number 60566

Employment History

Forensic Engineer
Nederveld, Grand Rapids, MI
2023 - Present

Duties include forensic engineering analysis relating to building pathology, structural damage due to fire, structural damage from vehicle impacts, storm damage (wind, snow, hail), seismic, and water loss events, calculations, and plan of repair design.

Design Engineer
Larson Engineering, Inc., White Bear Lake, MN
2017 – 2023

Duties included designing metal panel, curtain wall, terra cotta, and stone panel systems to withstand calculated design loads per ASCE 7 and IBC. Responsible for full structural design of each cladding system and their anchorage into the building structure. Prepared design criteria, structural calculations, and technical reports for all projects. Lead engineer on large scale multi-year projects while working on several other projects. Assisted clients to resolve unanticipated site conditions until project completion. Designed and conducted structural analysis on steel frames and shallow concrete foundations. Conducted yearly inspections on tieback anchors and other fall protection devices. Investigated and evaluated functional building envelope failures such as water leakage.