

EDUCATION

1993 **Bachelor of Science in Civil Engineering**
University of Kansas, Lawrence, Kansas

EXPERIENCE

2001 **Engineering Design & Testing Corp.**
to Present **Overland Park, Kansas**

Consulting Engineer

For residential, commercial and industrial structures: assessment, appraisal and umpiring services for scope of hail and/or wind damage to roof coverings; scope of structural damage due to tornado, fire, blasting, explosions, vehicle impacts, tree impacts, hurricanes; cause of moisture intrusions through roof coverings, exterior veneers, windows and foundations; scope of foundation damage due to involuntary discharges of water, settlement, ground subsidence; evaluation of construction defects and building code compliance; evaluation of failures in concrete foundations, driveways and sidewalks; depositions, trial testimony and subrogation support; cost estimates; value of loss; laboratory and field testing of construction materials; damage segregation; retaining wall failures.

1993 **Black & Veatch**
to 2001 **Overland Park, Kansas**

Design Engineer

Analysis and design of concrete foundations for industrial structures and equipment, determination of wind and seismic forces, analysis and design of telecommunication tower sites on undeveloped land, existing towers, existing water tanks and building rooftops, analysis and design of fiber optic installations in metropolitan and rural areas.

EXPERIENCE

Field Experience and Industrial Consulting Activity (partial list)

Catastrophe Activities — Midwest and Alabama

Determine the scope of structural damage to residential and commercial property due to wind, tornado or hurricane.

Concrete Supply Facility — Hutchinson, Kansas

Determine the scope of wind-related structural damage, including the segregation of pre-incident damage, to two concrete material silos and a prefabricated metal building.

Church — Kansas City, Missouri

Evaluate the cause of church building collapse.

Liquid Fertilizer Plant — McPherson, Kansas

Waste Gas Boiler Explosion - Construction and scheduling supervision of installation of new waste gas boiler and associated equipment.

Multistory Apartment Complex — Midwest and Alabama

Determine the scope of wind and/or hail damage to roof coverings

Multistory Apartment Complex — Salamanca, Mexico

Identify and evaluate deficiencies in construction, conduct on-site testing and provide technical opinions with respect to overall quality of construction.

Scrap Metal Plant — Muskogee, Oklahoma

Evaluate the scope of explosion-related damage to residences within two miles of furnace explosion at scrap metal plant.

Telecommunications Tower — Topeka, Kansas

Evaluate the cause of telecommunications tower collapse.

Synthetic Slate Roof — Norman, Oklahoma

Research and evaluate repair options for damaged synthetic slates.

Grain Tower Foundation — Grand Island, Nebraska

Determine the cause of tower foundation damages by inspecting the foundation, researching building codes, and consulting with the tower manufacturer.

REGISTRATIONS and CERTIFICATIONS

National Council of Examiners for Engineering and Surveying (Record #20847)

Registered Professional Engineer in Alabama (#25499)

Registered Professional Engineer in Arkansas (#13588)

Registered Professional Engineer in Colorado (#41080)

Registered Professional Engineer in Iowa (#19090)

Registered Professional Engineer in Kansas (#14925)

Registered Professional Engineer in Missouri (#E-2002004361)

Registered Professional Engineer in Nebraska (#E-10321)

Registered Professional Engineer in Oklahoma (#22710)

PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE), Member 2001-Present

INVITED LECTURES, WORKSHOPS AND PRESENTATIONS

"The Appraisal Process and the Reference Hearing for the Resolution of an Insurance Claim", EDT, Columbia, South Carolina, February 2013

"Hail Testing of Residential Roofing Materials", EDT, Kansas City, Missouri, February 2006

"Hail Damage to Residential and Commercial Properties", Iowa-Nebraska Chapter of International Association of Special Investigation Units, Des Moines, Iowa, April 2002

CONTINUING EDUCATION

- 2025 70th Annual Structural Engineering Conference, University of Kansas, Lawrence, Kansas
- 2024 *Heat, Air and Moisture Control in Building Envelopes*, EDT, Columbia, South Carolina
Hail Testing on Metal Roofs, EDT, Columbia, South Carolina
69th Annual Structural Engineering Conference, University of Kansas, Lawrence, Kansas
- 2023 *Commercial Roof Information, Evaluations, Repairs and Reporting*, EDT, Columbia, South Carolina
68th Annual Structural Engineering Conference, University of Kansas, Lawrence, Kansas
- 2022 *Retaining Walls for Non-Geotechnical Engineers*, CED Engineering, Online Training
67th Annual Structural Engineering Conference, University of Kansas, Lawrence, Kansas
- 2021 *Hailstones: Impact Damage to Asphalt Shingle Roof Coverings*, EDT, Virtual Class
66th Annual Structural Engineering Conference, University of Kansas, Virtual Conference
- 2020 65th Annual Structural Engineering Conference, University of Kansas, Lawrence, Kansas
- 2019 64th Annual Structural Engineering Conference, University of Kansas, Lawrence, Kansas
- 2018 50th Annual Geotechnical Engineering Conference, KU Department of Civil, Environmental & Architectural Engineering, University of Kansas, Lawrence, Kansas
63rd Annual Structural Engineering Conference, University of Kansas, Lawrence, Kansas
- 2017 *Engineering Analysis of Failure: Determination of Cause in a Legal Environment*, EDT, Albuquerque, NM
62nd Annual Structural Engineering Conference, University of Kansas, Lawrence, Kansas
- 2016 Geotech Conference, ASCE, Overland Park, Kansas
61st Annual Structural Engineering Conference, University of Kansas, Lawrence, Kansas
- 2015 *Forensic Analysis of Stair Descent Falls*, PDH Online, Overland Park, Kansas
60th Annual Structural Engineering Conference, University of Kansas, Lawrence Kansas
- 2014 *Structural Building Condition Surveys*, ASCE, Overland Park, KS
59th Annual Structural Engineering Conference, University of Kansas, Lawrence Kansas
- 2013 *Metal Roofing: Composition and Damage Assessment*, EDT, Columbia, South Carolina
58th Annual Structural Engineering Conference, University of Kansas, Lawrence Kansas
- 2009 *Concrete Repair Basics*, American Concrete Institute, Kansas City, Kansas

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- 2008 *Soil Basics for Engineers*, Auburn University, Lenexa, Kansas
- 2006 *Hurricane Damage Evaluation Procedures*, EDT, Charlotte, North Carolina
- 2004 *Wood Structures I*, International Code Council, Overland Park, Kansas
- 2003 *Foundation Types, Distresses and Repairs*, Haag Engineering Co., Oklahoma City, Oklahoma
- 2002 *2000 International Building Code Wind and Snow Load Provisions*, International Conference of Building Officials, Des Moines, Iowa
- Commercial Roofs Damage Assessment*, Haag Engineering Co., Des Moines, Iowa
- Composition and Wood Roofs Damage Assessment*, Haag Engineering Co., Des Moines, Iowa
- Roof Area Calculations and Inspection Techniques*, Haag Engineering Co., Des Moines, Iowa