

## **EDUCATION**

- 2006                      **Bachelor of Science, Civil Engineering**  
Iowa State University, Ames, Iowa
- 2011                      **Master of Civil Engineering**  
University of Kansas, Lawrence, Kansas

## **EXPERIENCE**

- September 2020  
to Present                      **Engineering Design & Testing Corp.**  
**Lenexa, Kansas**  
*Consulting Engineer*  
For commercial, industrial and residential structures: assessment of hail and/or wind damage to roof coverings; scope of structural damage due to wind, fire, snow, vibrations, vehicle impacts, tree impacts; cause of moisture intrusion through building envelope and foundations; scope of foundation damage due to involuntary discharges of water, soil pressure and ground movement; evaluation of construction defects and building code compliance; failure analysis involving concrete, masonry, steel and wood structures; cost estimates; value of loss; laboratory and field testing of construction materials; damage segregation; infrared thermography.
- April 2018  
to July 2020                      **SunSource Homes**  
**Kansas City, Missouri**  
*Structural Engineer*  
Analysis of existing structures for structural capacity to support solar installation; Structural design of custom homes and other miscellaneous structures.
- May 2006  
to February 2018                      **Burns & McDonnell**  
**Kansas City, Missouri**  
*Sr. Structural Engineer*  
Design of concrete foundations and structural steel ductwork for power generation facilities; Design of concrete foundations and steel platforms for refinery facilities; Structural analysis of existing lattice steel high voltage transmission towers and design of high voltage transmission lines.

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## **EXPERIENCE**

### ***Field Experience and Consulting Activity (partial list)***

#### **Floating Dock — *Lee's Summit, Missouri***

Determine scope of structural damage to floating dock.

#### **Restaurant Fire — *Kansas City, Kansas***

Determine scope of structural damage due to fire and code evaluation.

#### **Residential Roof — *Clinton, Missouri***

Evaluate roofs for wind and/or hail damage.

#### **Multiple Hotels — *Omaha, Nebraska***

Evaluate roofs for wind and/or hail damage.

#### **Vehicle Impact — *Independence, Missouri***

Determine scope of damage to residence resulting from vehicle impact.

#### **Moisture Intrusion — *Warrensburg, Missouri***

Determine cause of moisture intrusion.

#### **Residential Roof — *Saint Joseph, Missouri***

Determine scope of wind and/or hail damage to roof.

#### **Residential Hail — *Olathe, Kansas***

Evaluate concrete roof tiles, windows and EIFS veneer for hail damage.

#### **Grain Bin — *Meadville, Missouri***

Determine cause of damage to grain bin.

#### **Commercial Building — *Saint Joseph, Missouri***

Determine cause of moisture intrusion through wall of commercial building.

#### **Tree Impact — *Stilwell, Kansas***

Determine scope of residence damage due to tree impact.

#### **Townhome Complex — *Kansas City, Missouri***

Evaluate roofs for hail damage.

#### **Commercial Building Fire — *Kansas City, Missouri***

Determine scope of fire damage to building.

#### **Residential Roof — *Lee's Summit, Missouri***

Evaluate roof for hail damage.

## **REGISTRATIONS and CERTIFICATIONS**

Registered Professional Engineer in Arkansas (#19799)

Registered Professional Engineer in Colorado (#54524)

Registered Professional Engineer in Illinois (#62073689)

Registered Professional Engineer in Indiana (#PE12000638)

Registered Professional Engineer in Iowa (#P26209)

Registered Professional Engineer in Kansas (#21502)

Registered Professional Engineer in Minnesota (#60466)  
Registered Professional Engineer in Missouri (#PE-2018019613)  
Registered Professional Engineer in Nebraska (#E-18347)  
Registered Professional Engineer in Oklahoma (#32174)  
Registered Professional Engineer in Wisconsin (#49363-6)  
National Council of Examiners for Engineers and Surveying Record (#12-583-44)

## **PROFESSIONAL ORGANIZATIONS**

American Society of Civil Engineers (ASCE)

## **CONTINUING EDUCATION (partial list)**

- 2025     *Structural Engineering Conference*; University of Kansas, Lawrence, KS  
          *Geotechnical Engineering Conference*; University of Kansas, Lawrence, KS  
          *Design Aspects of Repairs*; EDT, Columbia, SC  
          *Moisture Intrusion into Residential and Commercial Buildings*; EDT, Columbia, SC  
          *Evaluation of Commercial Flat Roofs*; EDT, Columbia, SC
- 2024     *Structural Engineering Conference*; University of Kansas, Lawrence, KS  
          *Hail Testing on Metal Roofs*; EDT, Columbia, SC  
          *The Technical Challenges of Oceanic Wind Turbines*; EDT, Columbia, SC  
          *Large Concrete Sewer Condition Assessment*; EDT, Columbia, SC  
          *Heat, Air, and Moisture Control in Building Envelopes*; EDT, Columbia, SC  
          *Workplace Strategies for Ethical Challenges*; ASCE, Reston, VA
- 2023     *Structural Engineering Conference*; University of Kansas, Lawrence, KS  
          *Sink Holes and Structural Damage*; EDT, Columbia, SC  
          *Exposure Category Determination*; EDT, Columbia, SC  
          *Fire Investigation Processes*; EDT, Columbia, SC  
          *Commercial Roof Information*; EDT, Columbia, SC
- 2022     *Technical Issues Regarding Premise Liability Matter*; EDT, Columbia, SC  
          *Creative Engineering 101*; EDT, Columbia, SC  
          *Construction Defects*; EDT, Columbia, SC  
          *Wild and Urban Interface and Mitigation Strategies*; EDT, Columbia, SC  
          *Investigating Internal Combustion Engine Failures*; EDT, Columbia, SC
- 2021     *Photovoltaic and Energy Storage – How It Can All Go Wrong*; EDT, Columbia, SC  
          *Hailstones – Impact Damage to Asphalt Shingle Roof Coverings*; EDT, Columbia, SC  
          *Hurricane Damage: Storm Surge vs Wind vs Wind-Driven Rain*; EDT, Columbia, SC

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- Rooftop Solar Arrays: A Civil/Structural Perspective*; EDT, Columbia, SC  
*Blast-Related Damage Evaluation of Residential Structures*; EDT, Columbia, SC  
*Failure Analysis of Threaded Fasteners*; EDT, Columbia, SC
- 2020    *Design of Roof Structures*; ASCE, Reston, VA  
          *Connection Solutions for Wood Framed Structures*; ASCE, Reston, VA  
          *Elevating Wood Frame Structures*; ASCE, Reston, VA  
          *Engineering Judgement – Structural Renovation of a 100-Year-Old Barn*; ASCE, Reston, VA  
          *Evaluating Damage and Repairing Metal Plate Connected Wood Trusses*; ASCE, Reston, VA  
          *Structural Considerations for Building Additions*; ASCE, Reston, VA  
          *Antiquated Structural Systems*; ASCE, Reston, VA  
          *Snow Loading for Non-Standard Roof Shapes*; ASCE, Reston, VA  
          *Investigation of Winter Roof Failures*; ASCE, Reston, VA  
          *The Structural Stability Game Show*; AISC, Chicago, IL
- 2019    *The Fasteners and the Furious*; AWC, Leesburg, VA  
          *Essentials for Wood Construction*; AWC, Leesburg, VA  
          *Demystifying Diaphragm Design*; AWC, Leesburg, VA  
          *Tall Wood Structures*; AWC, Leesburg, VA  
          *Special Inspections for Wood Construction*; AWC, Leesburg, VA  
          *Engineered Lumber Design and Construction*; Half Moon Education, Overland Park, KS  
          *CLT as a Floor or Roof Element*; AWC, Leesburg, VA  
          *2018 NDS Changes*; AWC, Leesburg, VA  
          *Cornucopia of Classic Connection Conundrums*; AWC, Leesburg, VA
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