

Konnor J. Snook, P.E. | Forensic Engineer

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Professional Summary:

Mr. Snook is a forensic engineer with over four years of experience in the forensic engineering field. He has conducted forensic investigations of mechanical, component product failures; plumbing failures; material defects; corrosion damage; code and standard analysis (residential and commercial building codes, ICC Codes, NFPA Codes, ASTM, ANSI, etc.); residential and commercial construction defect claims; gas utility claims; residential, industrial, and commercial mechanical equipment fires; vehicle fires; fuel gas plumbing and equipment; storm damage; structural water intrusions; personal injury investigations; and accident investigation and reconstruction of passenger vehicles.

Area of Expertise, but is not limited to:

- Mechanical equipment fires
- Water Intrusions
- HVAC damage assessment
- Boiler and Humidifier failure analysis
- Product liability testing
- Electric and gas appliance failures
- Plumbing failures
- Fuel gas plumbing and equipment
- Sump pump failures
- Foundation drainage and storm damage investigations
- Commercial and residential roofing
- Roof storm damage investigations (i.e., hail and wind)
- Building envelope defects
- Personal injury investigations
- Code and standard analysis and interpretation
- Vehicle component failures
- Accident investigation and reconstruction of passenger vehicles
- Crush Analysis and Advanced Modeling

Licenses and Certifications:

Professional Engineering License, State of Texas, License Number: 152277

Professional Engineering License, State of Colorado, License Number: 0064725

OSHA 10 Hour Construction Safety and Health Certification, License Number: 26-007393025

Project Experience:

EFI Global, Inc., Houston, TX Residential Appliance Failures

Conducted origin and cause laboratory examinations to determine the subrogation potential for ; residential, industrial, and commercial appliances. Destructive and non-destructive test methods were used to identify the origin and cause of the failures.

The Vertex Companies, Weymouth, MA Moisture Intrusion

Fire suppression system analysis for both winterization, and construction defect. Using applicable codes, product installation guides, and the investigators methodology, the root cause of the moisture intrusion was identified.

The Vertex Companies, Dallas, TX Foundation and Wall Deflection

A residential home's concrete foundation and walls were measured for deflection analysis and compared to the claim's allegations.

The Vertex Companies, Las Vegas, NV Quality Inspection of Construction Project

Inspected the mechanical, electrical and plumbing systems of a five-billion-dollar construction project for quality and safety standard/code adherence.

APEC Engineering & Laboratory, Shallowater, TX Roofing and Building Envelope

Reported storm damage required field, laboratory and meteorological analysis.

Haag Engineering, Sugar Land, TX Industrial & Vehicular Accidents

Root cause analysis with an in-depth written report after safety incidents on jobsites and other industrial plants. Crush analysis, and vehicle speed estimates for vehicular accidents.

Professional Experience:

The Vertex Companies, Forensic Specialist, 2022– 2023
APEC Engineering & Laboratory, Engineer in Training, 2021 – 2022
Becker Engineering, Contract Forensic Engineer, 2020 – 2021

Specialized Education:

HVAC Storm Damage Assessment, The Vertex Companies, Robert W. Ezold, 2023
Enhanced Fujita Scale Training, APEC Engineering & Laboratory, Dr. Matt B. Phelps, 2022
Field and Laboratory Test Methods, APEC Engineering & Laboratory, Dr. Matt B. Phelps, 2021
Safety Concepts of Forensic Engineering, Texas Tech University, Dr. Jahan Rasty, 2019
Legal Concepts of Forensic Engineering, Texas Tech University, Dr. Jahan Rasty, 2019
Failure Analysis, Texas Tech University, Dr. Jahan Rasty, 2018

Education:

Bachelor of Science, Mechanical Engineering, Texas Tech University, Lubbock, TX, 2019
Master of Science, Mechanical Engineering, Texas Tech University, Lubbock, TX 2024

Affiliations:

American Society of Heating Refrigeration Engineers
American Society of Mechanical Engineers
Texas Tech University Society of Automotive Engineers