

Trent Hembree, PE | Forensic Engineer

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Professional Summary:

Mr. Hembree is a licensed professional engineer with over 10 years of structural engineering experience. Three and a half years of that experience pertain to forensic engineering investigations that have involved structural and building envelope damage and/or failures. His experience includes investigations related to moisture intrusion, foundation settlement and heaving, damage assessment related to fire and storm events (hail, wind, hurricane, snow and ice). As a forensic engineer with EFI Global he performs structural failures and construction defect investigations, assesses and provides forensic analysis of wind/hail damage related incidents.

Prior experience included design of mining facilities, oil/gas stations and wastewater treatment plants. He has experience with analysis, design and detailing of gravity and lateral force resisting members, utilizing concrete masonry, steel and concrete structural elements. Mr. Hembree has extensive experience in using and knowledge of the International Building Code, ASCE-7 and various structural design codes. His responsibilities have included designing various foundation systems to resist gravity and lateral forces from heavy industrial equipment as well as the use of finite element analysis programs to design complex steel structures and deep foundation systems.

Key strengths Include the following:

- Construction Defect
- Structural Failure Investigations
- Wind Damage Assessment
- Wind/Hail Damage Analysis
- Wind and Windborne Debris Damage Assessment
- Concrete
- Steel

Licenses and Certifications:

Professional Engineer, CO, #54326

Professional Engineer, NE, #E-19436

Professional Engineer, KS, #29217

Professional Engineer, UT, #13838370-2202

Professional Experience:

EFI Global, Forensic Engineer, 2023

Envista Forensics, Project Engineer, 2020 – 2023

Carollo Engineers, Structural Engineer, 2016 – 2020

Kahuna Design, Civil/Structural Project Specialist, 20013-2016
Lyntek Incorporated, Engineer, Structural Department, 2009-2013

Education:

Bachelor of Science, Civil Engineering, Colorado State University, Fort Collins, Colorado, 2007

Affiliations:

American Society of Civil Engineers
The American Institute of Steel Construction