
PROFILE

A Managing Member and Principal Engineer with over 18 years of engineering experience that includes structural and geotechnical engineering. Mr. Cowen has completed the analysis and design of new buildings, swimming pools, and retaining walls, and developed design documents for the structural repair/remodel of existing structures. Additionally, Mr. Cowen has conducted numerous forensic investigations – assessing damage and providing repair recommendations for structures subjected to storm-induced forces (e.g., hail, high winds), vehicle impacts, fires, explosions, water/moisture intrusion, and construction deficiencies. This forensic experience includes providing expert services for litigated disputes. Overall, his career has included the geotechnical analysis of soils, as well as the design and/or assessment of residential, multi-family, commercial, educational, religious, medical, governmental, and industrial structures comprised of steel, concrete, masonry, and wood. Key strengths include the following:

- Gravity Load Analysis
- Wind Load Analysis
- Structural Steel Construction
- Concrete Construction
- Concrete Masonry Construction
- Wood Construction
- Building Code Evaluation
- Retaining Wall Design
- Light Gauge Metal Construction
- Structural Collapse Evaluation
- Building Envelope Evaluation
- Geotechnical Analysis
- Foundation Design Assessment
- Vehicle-Impact Damage Assessment
- Fire Damage Assessment
- Wind Damage Assessment
- Hail Damage Assessment
- Flood Damage Assessment
- Explosion Damage Assessment
- Water/Moisture Infiltration Assessment
- Construction Deficiencies
- Commercial, Industrial, Educational, and Residential Buildings

EDUCATION

Bachelor of Science, Civil Engineering, 2004

Texas A&M University – College Station, Texas

PROFESSIONAL BACKGROUND

Scout Forensics LLC (Central Texas)

Managing Member and Principal Engineer – January 2023 to Present

YA Engineering Services (Austin, Texas)

Senior Managing Engineer – September 2021 to January 2023

Envista Forensics (Austin, Texas)

Principal Consultant – October 2019 to September 2021

Senior Project Engineer – September 2012 to October 2019

Gessner Engineering, LLC (College Station, Texas)

Senior Project Engineer/Project Manager – December 2009 to September 2012

Project Engineer – May 2004 to December 2009

LICENSURE

Professional Engineer (PE) – Alabama, Arkansas, Colorado, Florida, Louisiana, Mississippi, New Mexico, Oklahoma, Tennessee, Texas

Remote Pilot in Command, Commercial Operator (Part 107)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers (ASCE)

REPRESENTATIVE FORENSIC EXPERIENCE

Commercial, Educational, Religious, Industrial, and Residential Structural Inspections

United States

Performed forensic structural inspections on hundreds of properties in several jurisdictions throughout the United States when requested by insurance carriers, attorneys, property owners, realtors, or potential buyers to determine the cause and origin of damage, extent of damage, and/or remediation recommendations. Evaluated structures subjected to storm-induced forces (e.g., tornados, hurricanes, high winds), vehicle/tree impacts, fires, explosions, water/moisture intrusion, construction deficiencies, and excessive loading. As part of his forensic experience, Mr. Cowen has provided litigation support services in multiple legal matters.

Swimming Pool Structural Inspections

Texas

Performed forensic structural inspections on numerous swimming pools at residential and commercial properties when requested by insurance carriers or attorneys to determine cause and origin of movement and/or cracking to concrete pool structure or cementitious plaster.

Retaining Wall Structural Inspections

United States

Performed forensic structural inspections on multiple retaining wall structures and/or basements when requested by insurance carriers to determine cause and origin of failure, cracking, or moisture intrusion through the thickness of the walls.

REPRESENTATIVE DESIGN EXPERIENCE

Residential Structures*Central Texas*

Structural project manager for the structural design of numerous residential structures between 5,000 and 40,000 square feet. The structures incorporated steel, wood, masonry, and concrete elements. The foundations for the residences consisted of structural concrete, wood and steel-framed pier and beam systems, as well as reinforced concrete slabs-on-grade – both with and without piers.

Commercial Structures*Central Texas*

Structural project manager for the structural design of numerous commercial structures that incorporated steel, masonry, and concrete elements. The foundations for the structures consisted of structural concrete, steel-framed pier and beam systems, as well as reinforced concrete slabs-on-grade – both with and without piers.