
PROFILE

A Senior Engineer at Scout Forensics LLC with more than 10 years of engineering experience that includes structural engineering, geotechnical engineering, and construction material testing. Mr. Marsteller has completed the analysis and design of new buildings, as well as 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 analysis, design, and 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
- Construction Deficiencies
- Retaining Wall Assessment
- Foundation Assessment
- Light Gauge Metal Construction
- Vehicle-Impact Damage Assessment
- Fire Damage Assessment
- Wind Damage Assessment
- Hail Damage Assessment
- Flood Damage Assessment
- Explosion Damage Assessment
- Structural Collapse Evaluation
- Building Enclosure Evaluation
- Water/Moisture Infiltration Assessment
- Commercial, Industrial, Educational, and Residential Buildings

EDUCATION

Bachelor of Science, Civil Engineering, 2011
Texas A&M University – College Station, Texas

PROFESSIONAL BACKGROUND

Scout Forensics (Houston, Texas)
Senior Engineer – March 2022 to Present

Envista Forensics (Houston, Texas)
Project Engineer – November 2017 to March 2022

Gessner Engineering (College Station, Texas)
Structural Engineering Project Manager – May 2011 to November 2017

LICENSURE

Professional Engineer (PE) – Texas, Louisiana, and Florida

Remote Pilot in Command, Commercial Operator (Part 107)

REPRESENTATIVE INVESTIGATIVE EXPERIENCE

Structural and Building Enclosure Assessment*Houston, Texas*

Field investigation of 3 fire station buildings and the development of a report providing recommendations for remediation of identified deficiencies associated with structural components and building enclosures. All three buildings were steel framed structures, with one being a pre-engineered metal building.

Structural Assessment*College Station, Texas*

Field investigation of exterior concrete balconies and stairs at multiple residence halls, which culminated in a report outlining recommendations to remediate deteriorated structural components.

Structural Assessment*Sealy, Texas*

Field investigation of a historical timber frame structure. This work facilitated the development of a report that outlined the building's general conditions and provided recommendations for converting the structure into a wedding venue.

Differential Foundation Movement Assessment*College Station, Texas*

Exterior on-site investigation of 17 buildings for potential foundation movement. The resulting report addressed the cause, and provided recommendations to remediate, differential foundation movement across multiple buildings.

Wind Damage Evaluation*Houston, Texas*

Field investigation of 12 commercial buildings across 6 sites to determine the extent of wind damage to the thermoplastic polyolefin (TPO), modified bitumen, aggregate-surfaced built-up, stamped metal shake, and metal panel roofing caused by Hurricane Harvey. In addition to addressing the preceding, the associated report identified causes for each instance of reported moisture infiltration through the roof systems.

Wind Damage Evaluation*Puerto Rico*

Served as part of team that performed field investigations of 12 commercial plazas across Puerto Rico. The team's purpose was to determine, and report on, the extent of wind damage to site features, exterior cladding systems, roof systems, and interior finishes attributable to Hurricane Maria.

Wind Damage Evaluation*Donalsonville and Bainbridge, Georgia*

Field investigation of 19 commercial buildings across 2 sites to determine, and report on, the extent of wind damage to the buildings caused by Hurricane Michael, as well as the cause(s) of moisture infiltration through the building enclosures.

Hail Damage Evaluation*College Station, Texas*

Field investigation of 4 apartment buildings to determine, and report on, the extent of hail damage to the laminate-style asphalt-composition shingle roofing.

Vehicle Impact Damage Evaluation*Beaumont, Texas*

Field investigation of a motel's porte cochere to determine, and report on, the extent of structural damage caused by a vehicle impact.

Explosion Damage Evaluation*Houston, Texas*

Served as part of a team that conducted a field investigation of three commercial buildings to determine the extent of structural, roofing, and interior moisture damage caused by the Watson Grinding and Manufacturing explosion on January 24, 2020. In addition to addressing the preceding, the resulting report also provided repair recommendations for rectifying the identified explosion-related damage.

REPRESENTATIVE DESIGN EXPERIENCE

University Building*Bryan, Texas*

Structural project manager for the structural design of a 179,000 square foot building consisting of steel-concrete composite frames, and an elevated cast-in-place foundation system.

Fire Station*Houston, Texas*

Structural design of a 16,000 square foot fire station consisting of wood framing and concrete masonry unit (CMU) walls. The building also included steel framing in the apparatus bay, steel framed entry canopies, and a slab-on-void foundation system.

Fire Station*Leander, Texas*

Structural design of a 12,000 square foot fire station consisting of steel and wood framing with CMU walls in the apparatus bay, and a slab-on-grade foundation system.

Church Addition*College Station, Texas*

Structural design of a 20,000 square foot classroom wing addition consisting of steel frames and a pier supported slab-on-grade foundation system.

ISD Field House

Shiner, Texas

Structural design of a 12,000 square foot field house consisting of steel framing, exterior load bearing CMU walls, and a slab-on-grade foundation system.

Waterpark Addition

Sheridan, Texas

Structural design of a sixty-five-foot-tall addition, which included two new water slide platforms and two new zip line support frames. The steel-framed addition was supported on a concrete mat slab foundation system.