



# **Brian Moon**

PE, MS

### **Senior Project Manager**

**Department** 

**Engineering Services** 

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**Locations**Nashville, TN

## **Biography**

Mr. Brian Moon is a Project Manager where he provides condition assessment and forensic evaluation of structures damaged by natural disasters, collapses, fires, tree and vehicle impacts, and building envelope failures as part of YA Engineering Services. Mr. Moon is a licensed Professional Engineer in 8 states (Tennessee, Alabama, Mississippi, Kentucky, Louisiana, Florida, Arkansas, North Carolina). He has practiced internationally in Canada, Mexico, and Europe. He has experience in complex structural analysis and design, as well as failure analysis of post-loss structures affected by fires, floods, and catastrophes, both natural and manufactured.

### **Credentials**

- PE | Professional Engineer
- MS | Masters of Science Engineering Management
- FAA Part 107 Certification

## **Representative Consulting Assignments**

- University Academy | Panama City, FL | Hurricane | Investigated an existing school building following Hurricane Michael. The existing structure, consisting of hot-rolled wide flange beams and columns with bolted end-plate connections, was evaluated for structural damage. Findings were presented in a report to the owner outlining the extent of structural damage resulting from the hurricane. Performed a site visit to assess the structural damage after Hurricane Michael. The existing structural drawings were not found by the owner. So, the existing structure was described in report format as steel-framed, using hot-rolled wide flange beams and columns. Lateral stability and lateral load resistance were provided by semi rigid frames with bolted end- plate connections, etc. To summarize, a structural assessment report was written advising the owner the extent of structural damage for an existing school building.
- College University | Kentucky | Construction Incident | Investigated to determine the cause of the collapse of the cold-formed steel trusses during the construction phase of the building.
- Dentist Office | Murfreesboro, TN | Ceiling Failure | Investigated the cause of the collapsed drywall ceiling in the waiting area of the office building.
- Shopping Plaza | Memphis, TN | Fire Damage Assessment | Conducted a comprehensive evaluation of the shopping plaza to determine the extent of structural damage resulting from the building fire.
- Industrial Building | Franklin, KY | Fire Damage Assessment | Conducted a
  comprehensive evaluation of the commercial building to assess the
  magnitude of structural damage caused by the building fire and provided
  conceptual repair recommendations for the associated damage.
- Tobacco Factory | Mayfield, KY | Tornado Damage Assessment | Conducted a thorough assessment of the structural damage sustained by multiple buildings on the premises following the tornado and evaluated the potential for repairability of the observed structural damage.
- Hotel | Tunica Resorts, MS | Tornado Damage Assessment | Conducted a

- comprehensive evaluation to assess the extent of structural damage to the roof covering caused by the tornado and determine the source of interior water intrusion.
- Nursing Home Facility | Lebanon, TN | Storm Damage Assessment |
   Conducted a thorough evaluation to assess the extent of damage to the roof covering and related components resulting from wind and/or hail.
- Church | Paducah, KY | Storm Damage Assessment | Conducted a thorough evaluation to assess the extent of damage to the roof covering and related components resulting from wind and/or hail.
- Retail Building | Little Rock, AR | Vehicle Assessment | Conducted a
  comprehensive evaluation of the commercial building to assess the
  magnitude of structural damage caused by the vehicle impact and
  provided conceptual repair recommendations for the associated damage.
- Toyota Manufacturing | San Antonio, TX | Commercial & Public Buildings |
   Oversaw construction activities which included steel erection sequencing
   installation for the Forma building expansion, oversaw slab on grade pours
   for the weld, stamping and forma expansions (performed pre-pour
   inspections). Responded to contractor RFIs, identified and fixed field issues,
   gave PowerPoint presentation to Toyota and the onsite contractors
   providing guidance on slab on grade pour expectations/ previous lessons
   learned.
- Residential Home | Knoxville, TN | Tree Impact Assessment | Conducted a
  comprehensive evaluation of the residence to assess the magnitude of
  structural damage caused by the tree impact and provided conceptual
  repair recommendations for the associated damage.
- Tesla | Austin, TX | Commercial & Public Buildings | Worked on delegated portions of the overall design for the new general assembly facility from the structural lead engineer for the Tesla bldg. expansion in TX. Worked on designing large mezzanine structures which included vibration analysis.
   Also, designed the building moment connections for the general assembly building and the exterior stair shaft tower structural framing.
- General Motors | Ramos, Mexico | Commercial & Public Buildings |
   Structural Design Lead for General Assembly Building and GA Seat and
   Delivery Building: Designed the general assembly building and GA seat and
   delivery building expansion. The building was comprised of brace frames in
   one direction and moment frames in the other direction. The roof framing
   consisted of truss framing for both buildings. The intermediate floors were
   non-composite framing. Design responsibilities included coordination with
   other disciplines.

## **Professional Experience**

- 2025 Current | Senior Project Manager | YA Group
- 2023 2025 | Project Manager | YA Engineering Services
- 2021 2023 | Project Engineer | Envista Forensics
- 2020 2021 | PE Exam Question Book Reviewer and Editor | School of PE
- 2020 2021 | Regional Engineering Manager | Oldcastle Infrastructure
- 2020 2020 | Structural Engineer, E4 | SSOE Group
- 2018 2020 | Structural Engineer | Barge Design Solutions
- 2013 2018 | Structural Engineer, E3 | SSOE Group
- 2013 2013 | Engineering Internship | Honeycutt Engineering

### **Area of Practice**

- Building Code Upgrade Review
- Building Envelope

- Condition Assessment
- Construction Administration
- Damage Assessment
- Earthquake Engineering
- Failure Analysis
- Infrared Thermography
- Litigation Support
- Repair and Rehabilitation Design
- Roofing
- Seismic Evaluations and Retrofit Design
- Structural Analysis

#### **Education**

- Tennessee Technological University Bachelor of Science Civil Engineering (Structural) Cookeville Tennessee
- Lipscomb University Master of Science Engineering Management Nashville Tennessee

#### **Affiliations**

- American Institute of Steel Construction (AISC)
- American Society of Civil Engineers (ASCE)
- Tennessee Structural Engineers Association (TN-SEA)

#### Licenses

- 38642 Alabama Professional Engineer (Structural)
- 21516 Arkansas Professional Engineer (Structural)
- 36290 Kentucky Professional Engineer (Structural)
- 47408 Louisiana Professional Engineer (Structural)
- 119782 Tennessee Professional Engineer (Structural)
- 96071 Florida Professional Engineer (Structural)
- 34048 Mississippi Professional Engineer (Structural)
- 059231 North Carolina Professional Engineer (Structural)