

EDUCATION

2012 **Bachelor of Science in Civil Engineering**
University of South Carolina, Columbia, South Carolina

EXPERIENCE

July 2020 to Present **Engineering Design & Testing Corp./EDT Engineers, P.C.**
Charlotte, North Carolina

Consulting Engineer

Root cause investigation and assessment of residential, commercial, industrial, and miscellaneous structures for blasting/vibration related issues, construction defects, collapses, design defects, drainage, exterior/interior finishes, failures, foundation settlement, impacts, signs of structural distress, and water intrusion. Evaluation of structures and roofing systems after earthquakes and storm events such as hailstorms and high wind events. Assessment of structural systems, construction methodologies, and compliance of structures with construction documents and building codes. Evaluation and analysis of structural components including concrete, masonry, steel, and wood.

October 2016 to June 2020 **McDermott International (formerly Chicago Bridge and Iron Company)**
Charlotte, North Carolina

Structural Engineer

Structural design of heavy industrial power generation facilities. Issued designs consisting of reinforced concrete structural systems such as columns, slabs, walls, foundation mats, footings, and piles as well as designs consisting of structural steel buildings, pipe racks, access platforms, and utility supports. Analyzed and issued designs for specialty structures such as cooling towers (water retaining) and steam / gas turbine generator (rotating equipment) tabletops including eigenvalue and transient dynamic analysis. Developed and revised project specifications that established the requirements for fabrication of structural steel members and connections as well as specifications involving concrete placing and mix design requirements. Managed the engineering scope of all civil/structural purchase orders and subcontracts from the bid phase through the execution phase. Experienced using STAAD Pro finite element analysis design software.

October 2012 to September 2016 **WECTEC (formerly Chicago Bridge and Iron / Shaw Group)**
Waynesboro, Georgia

Engineer III

Onsite design engineer for the AP1000 Plant Vogtle Units 3 & 4 Nuclear Power Plant Project. Issued engineering design change and nonconformance reports, solving construction and design related issues. Issued designs for structural steel utility supports, embedded plates, and equipment anchorage as well as designs for reinforced concrete foundation mats and walls. Consulted with construction personal daily, completing inspections of numerous reinforced concrete and steel structures to ensure adequate installation of issued designs. Completed various evaluations and analysis to support the means and methods of construction activities such as

underground utility evaluation for large equipment transportation and modifications of structural steel frames to support rigging steel components. Revised technical specifications to edit or add requirements regarding structural steel fabrication/installation, concrete embedments, painting/coating, and concrete placement/mix designs.

EXPERIENCE

Design and Construction (partial list)

Golden Pass LNG — Sabine Pass, Texas

Natural Gas Pretreatment and Liquefaction Facility

Entergy Montgomery County Power Station — Willis, Texas

2 on 1 Natural Gas Combined Cycle Power Plant

Entergy Lake Charles Power Station — Lake Charles, Louisiana

2 on 1 Natural Gas Combined Cycle Power Plant

Entergy St. Charles Power Station — Montz, Louisiana

2 on 1 Natural Gas Combined Cycle Power Plant

AP1000 Plant Vogtle Units 3 & 4 — Waynesboro, Georgia

Nuclear Power Plant

REGISTRATIONS and CERTIFICATIONS

National Council of Examiners for Engineering and Surveying Record (#13-385-16)

Registered Professional Engineer in Georgia (#PE047215)

Registered Professional Engineer in Kentucky (#36325)

Registered Professional Engineer in Maryland (#57856)

Registered Professional Engineer in North Carolina (#050953)

Registered Professional Engineer in Ohio (#86479)

Registered Professional Engineer in Pennsylvania (#PE092339)

Registered Professional Engineer in South Carolina (#34281)

Registered Professional Engineer in Tennessee (#124211)

Registered Professional Engineer in Virginia (#62750)

PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE)

Structural Engineering Institute (SEI)

PRESENTATIONS

“Blast-Related Damage Evaluation of Residential Structures,” Engineering Design & Testing Corp.: Annual Engineers’ Meeting, February 9, 2021, Virtual Meeting

CONTINUING EDUCATION

- 2020 *Foundation for Dynamic Equipment*, engNoveX, PDH Online, Charlotte, North Carolina
 The Basics of Steel Bridge Design Workshop, American Institute of Steel Construction, PDH Online, Charlotte, North Carolina
- 2019 *Real World Issues Affecting Structural Bolt Installation and Inspection per Research Council on Structural Connections' Specification for Structural Joints Using High-Strength Bolts*, Applied Bolting, Charlotte, North Carolina