

SUMMARY

Structural Engineer with 4 years of design experience in pharmaceutical, nuclear, and heavy metals manufacturing. Holds a master of science in structural engineering and a bachelor of science in civil engineering. Experienced in finite element modeling, dynamic loading analysis, and multi-material structural systems including steel, reinforced concrete, and masonry. Strong background in interdisciplinary coordination, schedule driven project execution, and mentorship of junior engineers.

EDUCATION

Clemson University: *Master of Science in Structural Engineering*

- GPA: 3.80
- ASCE, Clemson Fly-Fishing

Clemson University: *Clemson, SC Bachelor of Science in Civil Engineering w/ Structural Emphasis*

- GPA: 3.73
- Clemson Honors College, Clemson Fly-Fishing, ASCE

EXPERIENCE

Structural Engineer 2022-Present

Fluor

- Create, analyze, and check design models for structural components and systems
- Collaborate with other engineering disciplines to integrate systems and identify the scopes of multi-billion dollar projects in the pharmaceutical, nuclear, and heavy metals industries
- Provide full lifecycle support of systems throughout design, fabrication, and construction
- Work with clients to answer, validate, and process RFI's, submittals, and change orders
- Manage and process controlled nuclear information, ensuring compliance with federal regulations and proper information handling protocols
- Mentored and checked work of junior engineers and interns

Notable Projects:

Heavy Metals Manufacturing:

- Delivered the designs of two steel mill buildings. Challenges included 120 foot truss spans, 500 ton bridge cranes, and coastal wind forces with superimposed building drift requirements.

Large Scale Pharmaceutical:

- Led end-to-end design of six multi story stainless steel platforms for pharmaceutical tanks and piping, coordinating across various engineering teams and disciplines.

Nuclear Facility:

- Responsible for barrier and foundation design for impact loading. Verifying full building transfer forces outside of the original design software.

Structural Engineering Intern 2021

Britt Peters and Associates

- Preformed structural design and analysis on an 11 story hotel in a high seismic area
- Designed steel, reinforced concrete, and wood structural systems

Construction Materials Testing Intern 2020

Nova Engineering and Environmental

- Performed laboratory and field tests on material samples to obtain strength parameters
- Collaborated with clients to efficiently schedule and execute projects

SKILLS & INTERESTS

Skills: EIT License, RISA 3D, Python, RAM Structural, ETABS, ANSYS, SAP2000, NavisWorks, AutoCAD and Excel

Interests: Outside of the office I enjoy playing tennis, backpacking, golfing, and traveling