

# Adrianna Serpe

Structural Engineer

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## EDUCATION

### B.S in Civil Engineering at University of Connecticut, Storrs, CT

Aug 2016 - May 2020

I learned a variety of technical skills while studying for my Bachelor's degree in Civil Engineering, including how to read and interpret blueprints, how to use engineering software programs like AutoCAD, and how to perform various types of calculations.

## LINKS

[linkedin.com/in/adriannaserpe](https://www.linkedin.com/in/adriannaserpe)

## SKILLS

Structural analysis

Design of reinforced concrete, steel and composite structures

Soil mechanics

Foundation design

Retaining wall design

Bridge engineering

## LANGUAGES

English

Portuguese

## PROFILE

Structural engineer with 5+ years of experience in the engineering field. Expertise lies in performing complex calculations to determine the strength and stability of structures, as well as overseeing construction projects from start to finish. Able to communicate effectively with clients, architects, and other engineers to ensure that all project goals are met. Proven record of success in designing safe and efficient buildings and bridges that can withstand extreme weather conditions.

## EMPLOYMENT HISTORY

### ● Senior Structural Engineer at Bechtel Corporation in Reston, VA

May 2022 - Present

- Structural Engineer with experience in the design of steel, concrete, and masonry structures for residential, commercial, and industrial buildings.
- Extensive experience in building code analysis and structural system selection.
- Experienced in performing seismic analyses using various codes including ASCE 7-05 / 07-10 / 13-14 versions.
- Utilized STAAD Pro & RISA 3D software to develop designs (steel connections/moments diagrams).
- Performed SQL queries on an Oracle database to streamline generation of reports summarizing loads acting on a structure.

### ● Lead Structural Engineer at The Lane Construction Corporation in Cheshire, CT

Aug 2020 - Apr 2022

- Designing a building that is safe and able to withstand the loads it will experience from things like wind, rain, snow, and earthquakes.
- Making sure that the foundation of a building is properly designed so that it can support the weight of the entire structure.
- Designing HVAC systems keeps people comfortable in their homes and businesses while also using energy efficiently.
- Selecting eco friendly materials for construction projects reduces waste and protects natural resources.
- Playing an important role on site during construction by ensuring contractors are following engineered drawings correctly.

## MEMBERSHIPS

### American Concrete Institute (ACI), American Concrete Institute

May 2021 - Jul 2021

### National Association of Corrosion Engineers International (NACE)

Apr 2020 - Jul 2020

### American Welding Society (AWS)

Jun 2018 - Sep 2018

### The Structural Engineer's Certification Exam Board Of America, Inc. (SECB)