WARREN

THE WARREN GROUP, INC. FORENSIC ENGINEERS & CONSULTANTS
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Claire H. Benedict, P.E.

Structural Engineer

Building Envelope/Water Intrusion

Building Codes and Standards

Construction Defects

Foundation Settlement/Cracking

Roof Damage

Steel, Concrete, Masonry & Timber Structures

Structural Failure

EDUCATION

2018 **Bachelor of Science in Civil/Structural Engineering**
Purdue University

EXPERIENCE

May 2026 to Present

Structural Engineer, The Warren Group, Inc., Irmo, South Carolina

Conduct technical investigations of construction defects, incidents and losses related to residential, commercial, industrial and historic structures.

Determine cause of building envelope failures, water intrusion and excessive moisture.

Conduct building code and construction standard evaluations.

Inspect concrete systems with cracks, settlements and failures in foundations, retaining walls, floor slabs and other concrete installations.

Assess damage to residential and commercial roofs due to age, weather, fire and installation defects.

Evaluate structural failures involving steel, concrete, masonry, and timber.

2021 to 2026

Senior Design Engineer, Savannah River Mission Completion, Aiken SC

Completed structural designs and drawings for the creation, modification, and retrofitting of essential structures. Approved structural designs, drawing modifications, and construction-requested design change orders. Moisture intrusion assessment and sealant failure analysis. Conducted construction walkdowns for remediation and greenspace projects.

2018 to 2021

Design Engineer, Nucor Building Systems, Swansea SC

Completed structural designs of metal building systems. Applied specified and code required loads for lateral and gravity framing and bracing design. Analyzed wind, seismic, and precipitation resistance. Led a safety team focused on identifying and eliminating life-threatening risks. Participated in First Responder team to be mobilized in case of on-site injuries.

EXPERIENCE (Continued)

2017 to 2017 Design Engineering Intern, Nucor Building Systems, Swansea, SC

Created engineering quotes for metal building design proposals, created and edited internal reference and design spreadsheets.

2016 to 2016 Design Engineering Intern, American Building Company, Eufaula, AL

Generated AutoCAD progress drawings, anchor bolt plans, and training programs.

2015 to 2015 Facilities and Project Engineering Intern, Allison Transmission, Indianapolis, IN

Served as team leader or supporting engineer for construction projects, sort and logged the original facility drawings for future maintenance and upkeep projects.

2014 to 2014 Validation Engineering Intern, Delphi Automotive Systems, Kokomo, IN

Served as acting validation engineer for projects. Operated validation equipment, including INSTRON tension and Kelvin resistance machines.

REGISTRATIONS

Professional Engineer in Florida (#105219)

Professional Engineer in Georgia (#PE056834)

Professional Engineer in North Carolina (#063664)

Professional Engineer in South Carolina (#40846)

CERTIFICATIONS

ICC Commercial Building Inspector - B2 (#10750735)

PROFESSIONAL ORGANIZATIONS

Society of Women Engineers

American Society of Civil Engineers (ASCE)

International Code Council (ICC)

Inducted into the Order of the Engineer