

PROFILE

Mr. Sean Brickner is a licensed Professional Engineer with over 10 years of experience. He is a Senior Project Engineer in the North Carolina area. Mr. Brickner is knowledgeable in performing structural, geotechnical, and construction engineering-related services. Key strengths include the following:

- ▶ Deep Foundation Design
- ▶ Construction Drawings
- ▶ Forensic Investigations
- ▶ Geotechnical Engineering
- ▶ Masonry Design
- ▶ Residential / Commercial Structure Design
- ▶ Construction Material Testing
- ▶ Structural Engineering
- ▶ Reinforced Concrete Design
- ▶ Soil Testing and Monitoring
- ▶ Foundation Assessments
- ▶ Helical Pier Design
- ▶ International Building Code
- ▶ Retaining Wall Design & Investigations
- ▶ Timber Design
- ▶ Subsurface Investigations

- ▶ *Industries: forensics, construction, commercial and industrial buildings, residential structures, water and wastewater treatment*
- ▶ *Computer Skills: Windows, Microsoft Word and Excel, Adobe X, Google EarthPro*
- ▶ *CAD/Design Packages: AutoCAD, Forte 4.0, ASDIP Steel, ASDIP Foundations, EnerCalc, Gint, SketchUp, ASI Steelsmart 7, SRWall 4, Novo SPT*

EDUCATION

Bachelor of Science, Civil Engineering, 2011
Ohio University – Athens, Ohio

LICENSES

Professional Engineer (PE):

- ▶ Georgia
- ▶ North Carolina
- ▶ South Carolina
- ▶ Tennessee
- ▶ Virginia

CERTIFICATIONS

American Concrete Institute
Concrete Field Testing Technician, Grade 1

PROFESSIONAL AFFILIATIONS

- ▶ American Society of Civil Engineers (ASCE)

PROFESSIONAL BACKGROUND

June 2021 – Present: Envista Forensics – Charlotte, NC
Project Engineer

OFFICE

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CONTACT

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CORPORATE OFFICE

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WEBSITE

www.envistaforensics.com

July 2017 – June 2021: Envista Forensics – Charlotte, NC

Project Engineer

February 2012 – July 2017: Shield Engineering, Inc. – Charlotte, NC

Project Manager

REPRESENTATIVE PROJECT EXPERIENCE

FORENSIC

Residential Retirement Community (*Multiple - Residential*)

Fort Mill, South Carolina

- ▶ Performed numerous inspections for homebuilders, contractors and homeowners. Inspections include but are not limited to construction defects, soil bearing failure, and damage due to water intrusion.

STRUCTURAL

Famous Toast (*Commercial*)

Indian Land, South Carolina

- ▶ Designed reinforced concrete foundation and steel super structure for new covered patio addition.

Edgewater Park – Banquet Center and Office Complex (*Mix-Use*)

Lancaster County, South Carolina

- ▶ Performed structural design of pre-engineered metal building concrete foundation system (over 20,000 sf). Performed analysis of building loads, calculations necessary for foundation design, determined foundation type based on review of geotechnical data and drafted building foundation drawings.

Garver Homes & Renovations (*Multiple - Residential*)

North & South Carolina

- ▶ Performed load path analysis on multiple residential single-family homes to allow for renovations such as removal of load bearing walls and new additions.

GEOTECHNICAL

Duke Energy Substation (*Multiple - Energy*)

North & South Carolina

- ▶ Performed initial geotechnical evaluation prior to construction of substations and associated equipment. Roles include client and contractor coordination, boring layout recommendations, soil classification, performing laboratory tests on soil samples, developing reports with site specific recommendations for foundation design parameters.

Charlotte Mecklenburg Schools (*Multiple - Educational*)

Charlotte, North Carolina

- ▶ Performed initial geotechnical evaluation prior to construction. Roles include client and contractor coordination, boring layout recommendations, soil classification, performing laboratory tests on soil samples, developing reports with site specific recommendations.

CONSTRUCTION

Charlotte Mecklenburg Schools (*Multiple Educational*)

Charlotte, North Carolina

- ▶ Performed various construction materials testing services throughout construction of multiple large scale new construction projects mainly consisting of new school buildings and associated facilities.

Windsor Run (*Commercial*)

Matthews, North Carolina

- ▶ Performed various construction materials testing services throughout construction of a multi-story timber framed retirement development. Testing services included: earthwork monitoring, soil density testing, and foundation monitoring, reinforcement steel verification and concrete testing.