

Michael F. Connor, P.E. | Senior Principal Engineer, Civil and Structural Engineering

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Professional Summary:

Mr. Connor has a diverse work experience across the areas of civil, environmental, facilities, geotechnical, and construction materials engineering where he has executed, managed and provided technical leadership. He has conducted forensic investigations of historic structures, and investigated claims at residential, commercial and industrial facilities and infrastructure, such as roads, bridges and utilities. Losses have ranged from a few thousand dollars to tens of millions. He has served as an expert witness. He has responded to natural disasters including floods, tornados, wildfires, earthquakes and tornados. His design experience includes subdivision planning and design, water and sewer extensions, erosion control plans, clean up of environmental contamination, structural and roadway repairs. His project experiences include residential subdivisions, multi-family developments, and commercial and industrial site developments. He has overseen routine geotechnical investigations and construction testing activities.

- Evaluation of historic structures
- Flood damage assessment
- Post fire structural assessment
- Tornado and hurricane damage assessment
- Evaluation of structural damage from vehicle impacts
- Earthquake damage assessment
- Geotechnical failure investigations
- Roof assessments

Licenses and Certifications:

Professional Engineer, Alabama, License # 17153

Professional Engineer, Arkansas, License # 15222

Professional Engineer, Florida, License # 76546

Professional Engineer, Georgia, License # 37203

Professional Engineer, Indiana, License # 60890068

Professional Engineer, Kentucky, License # 28788

Professional Engineer, Louisiana, License # 40714

Professional Engineer, Mississippi License # 20861

Professional Engineer, North Carolina, License # 26199

Professional Engineer, South Carolina, License # 30953

Licenses and Certifications (Continued):

Professional Engineer, Tennessee, License # 20032

Professional Engineer, Texas, License # 124032

NCEES Record Holder, 49659

OSHA 10 Hour Construction Site Safety

OSHA 40 hour- HAZWOPER

Project Experience:

**VeriClaim Inc. Mississippi Gulf coast
Roof damage Evaluation**

Served as project manager for the evaluation of roof damage claim for over 300 single family homes and 40 quadplex buildings. The team consisted of 9 engineers and a UAV pilot who completed the field investigation in less than three weeks.

**Medical Center, South Carolina
Sinkhole collapse**

The insurance claim was for a sinkhole collapse that resulted in flooding of a roadway providing access to the hospital emergency room. Cause was determined to be the collapse of improperly constructed stormwater drainage system over 30 feet below the ground surface.

**VeriClaim Inc. Tennessee
Roof damage evaluation**

Snow, ice and freezing rain damaged the roof of a 500,000 sf warehouse facility resulting in thousands of leaks and damage to inventory. Determined root cause of failure and assisted in the development of repair alternatives. Insurance claim was in excess of \$10 million.

**Ante Bellum Home, Gallatin, TN
Structural Collapse**

A portion of this 1850 home collapsed during the construction of an addition. Assignment consisted of the evaluation of historic and recent modifications to the structure and construction processes.

**Chicken Houses, Alabama
Tornado damage assessment**

Post tornado evaluation of chicken houses for extent of structural damage and development of repair or replacement alternatives.

**Hurricane Harvey, Houston, Texas
Flood damage assessment**

Evaluation of flood damaged residential structures.

**Hurricane Irma, Florida Keys
Hurricane damage evaluation**

Evaluated damage to single and multi-family residential structures. One multi-family structure evaluation included review of previous repair history of the building and construction defects.

Project Experience (Continued):

Gatlinburg Wildfires, Tennessee Post fire damage evaluation

Evaluated extent of damage to structures and assisted in identification of repair or replacement scenarios and impact of code upgrades.

Professional Experience:

EFI Global /Unified Investigations and Sciences, Inc., Senior Principal Forensic Civil / Structural Engineer, 2012 - present
Environmental Consulting Resources, Civil and Environmental Engineer, 2011
PEER Consultants, Civil and Environmental Engineer, 2011
Federal Emergency Management Agency, Hazard Mitigation Engineer, 2010
MACTEC, Nashville, Tennessee, Senior Principal and Senior Project Manager 2008 to 2010
Day Associates Engineering Services, Civil Engineer, 2004 to 2008
Pesterfield Engineering, Project Engineer/Ground Penetrating Radar, 2004
Froehling and Robertson, Branch Manager, 2000 to 2003
Law Engineering and Environmental Services, Knoxville and Nashville, Tennessee, Project to Principal Engineer, 1983 to 2000

Specialized Education:

Indiana Engineers' Laws and Rules, SunCam 2018
A Review of Site Features, Sun Cam, 2017
Fundamentals of Site Grading Design, Sun Cam, 2017
A Practical Introduction to Zoning and Entitlements, Sun Cam, 2017
Florida Rules and Law and Ethics, 2017
Understanding FEMA Flood Insurance Studies, PDHonline, 2016
Concrete Repair- Selection of Materials, PDHonline, 2016
Geotechnical and Geological Claims, PLRB, 2016
Managing Multiple Projects, PDHonline,, 2016
Water Mitigation: Complex Restoration Projects, IICRC 500 and 520, PLRB, 2016
Asbestos Awareness, Mississippi State University, 2016,
Professional Liability, PDHonline, 2016
Asbestos Awareness, Mississippi State University, 2016
Florida Engineering Society, Newly Updated! Florida Laws & Rules PDHon-Line, 2015
International Building Code & More: About the Codes, RedVector.com, 2015
International Building Code & More: Code Officials and Code Processes, RedVector.com, 2015
International Building Code & More: Family Residences, Existing Structures and Historic Buildings, RedVector.com, 2015
8 hour HAZWOPER Refresher, RedVector.com, February 17, 2015
OSHA 29 CFR 1910.1200-Globally Harmonized System of Classification and Labeling of Chemicals, Unified Investigations & Sciences, Inc., 2014,

8 Hour HAZWOPER Refresher, 2013
Introduction to Infrared Camera Operation, Infrared Training Center, 2013
FLIR I5 Basics, Infrared Training Center, 2013

Specialized Education (Continued):

Introduction to FLIR Quick Report, v1.2, Infrared Training Center, 2013
Arc Mapping Basics, CFITrainer.net, 2012
Digital Photography, CFITrainer.net, 2012
Residential Construction, CFITrainer.net, 2012
Safety, CFITrainer.net, 2012
Vacant Buildings, CFITrainer.net, 2012
40 Hour HAZWOPER, Grant Training Solutions, 2011
Fundamentals of Erosion Prevention and Sediment Control (TDEC Level I) refresher, 2011
Managing Floodplain Development Through the NFIP, FEMA Emergency Management Institute, 2010
Department of Homeland Security, No Fear Act training, FEMA Employee Knowledge Center, 2010
Emergency and Disaster Preparedness, SkillsSoft, 2010
Introduction to the National Infrastructure Protection Plan (NIPP), IS-00860.a, FEMA Emergency Management Institute, 2010
The Constitution Day Course, Department of Homeland Security 2010
Records Management Training, FEMA, 2010
406 Hazard Mitigation, FEMA Emergency Management Institute, 2010
Introduction to the Incident Command System, ICS-100, FEMA Emergency Management Institute, 2010
Deployment Basics Federal Disaster Workforce Readiness, FEMA Emergency Management Institute, 2010
Module training of the Damage-Frequency Assessment, Flood, Hurricane Wind, and Tornado modules, FEMA Emergency Management Institute, 2010
Introduction to the Public Assistance Process, IS-00630, FEMA Emergency Management Institute, 2010
National Incident Management System (NIMS) An Introduction, IS-00700.a, FEMA Emergency Management Institute, 2010
National Response Framework, An Introduction, IS-00800.b, FEMA Emergency Management Institute, 2010
Continuity of operations (COOP) Awareness Course, IS-00546a, FEMA Emergency Management Institute, 2010
OSHA 10 Hour Construction Safety, OSHA Pro's, 2010
Coordinating Environmental and Historic Preservation Compliance, FEMA Emergency Management Institute, 2010
Benefit-Cost Analysis Bridge Training Course, FEMA Emergency Management Institute, 2010
Structurally Deficient and Functionally Obsolete Bridges, Ed Wasserman of TDOT hosted by ASCE Nashville Branch, 2008
Segmental Retaining Wall Systems, Versa-Lok, 2008
Design Principles for Erosion Prevention and Sediment Control (TDEC Level II), Water Resources Research Center University of Tennessee 2008
Certified Professional in Erosion and Sediment Control, Exam Review Course, Jeffery Hoilman, International Erosion Control Association Southeast Chapter, 2008
Fundamentals of Erosion Prevention and Sediment Control (TDEC Level I) initial course, Water Resources Research Center University of Tennessee, 2008

Development , Planning and Designing for the Natural Resources, Session I The Neighborhood and Community Scale and Session II Light Imprint Strategies for Sustainable Infrastructure and Development, AIA Nashville, 2008
Green Building Stormwater Concepts,

Specialized Education (Continued):

The WNC Green Building Council, 2008
Green Building Seminar, Mega Green, 2008

Education:

Master of Science, Environmental Engineering, University of Tennessee, Knoxville, Tennessee 2001
Bachelor of Engineering, Civil Engineering, Vanderbilt University, Nashville, Tennessee 1983

Affiliations:

American Society of Civil Engineers
Engineers Without Borders

Courses Instructed/ Guest Lecturer:

Quality Management
Environmental Management
Engineering Economy

Publications and Presentations:

Booker, Richard; Schafani, David; Connor, Michael: "Large Commercial Roof Claims, Complex Issues, presentation at PLRB, April, 2016 and March, 2017.