

David R. Willmott, PE | Senior Forensic Engineer

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Professional Summary:

David Willmott is a Professional Engineer with 39 years' experience in civil engineering, providing forensic, structural and geotechnical engineering services and environmental site assessments. Often retained by attorneys and insurance adjusters, his expertise is requested on construction defect, differential structural settlement, storm damage, water intrusion, microbiological growth (MBG), roofing, and slip and fall claims. His inspections determine structural damage and provide repair recommendations for buildings damaged as a result of high winds and water. In addition, he has performed earthquake damage assessments on residential and commercial properties and often provides peer review on forensic reports prepared by other engineers.

Mr. Willmott's vast expertise in civil engineering primarily encompasses the geotechnical and structural aspects of storm damages to residential and commercial structures. Mr. Willmott has experience in site assessments, hurricane damage, differentiating between wind and flood damage, earthquake damage, construction defects, construction materials testing and inspection, vibration studies, foundation and wall damage, water intrusions, plumbing leaks, mold investigations, sinkhole investigations, mining operations and slip and fall claims.

Mr. Willmott is a FAA Part 107 Licensed Unmanned Aircraft Pilot and holds a North Carolina Unmanned Aircraft System (UAS) Operator Permit.

- Construction Defects
- Structural Engineering
- Slip and Falls Claims
- Storm Damage
- Water Intrusion

Licenses and Certifications:

Registered Professional Engineer in North Carolina #20410

Registered Professional Engineer in Virginia # 44740

Registered Professional Engineer in Florida # 72573

Registered Professional Engineer in South Carolina # 28793

Registered Professional Engineer in Georgia # PE 036346

Registered Professional Engineer in New Jersey #GE51190

Registered Professional Engineer in Pennsylvania #078826

Registered Professional Engineer in Alabama #32112-E

Licenses and Certifications (Continued):

Registered Professional Engineer in Tennessee #102160
Registered Professional Engineer in West Virginia #19561
National Council of Examiners for Engineering and Surveying #29334
Certified XL Tribometrist #1610636
FAA Part 107 Remote Pilot Certificate Number: 4067048
North Carolina Commercial UAS Operator Permit Number: C0003128

Professional Experience:

EFI Global /Unified Forensics, PLLC; Senior Forensic Engineer, 2015 to Present
Independent Forensic Consultant, 2011 to 2015
ESP Associates, PA, Department Manager and Senior Geotechnical Engineer, 2006 to 2010
Willmott Consulting Services, P.C.; Owner, Principal Forensic Engineer; 1997 to 2006
Aquaterra Engineering, Inc; Corporate Marketing Director; 1997
Professional Service Industries, Inc. Vice President, Senior Engineer 1979 to 1996

Specialized Education:

Drone Workshop for Commercial & Government Operators, NCDOT, 2018
AAA Environmental, Asbestos Operations & Maintenance Update, 2018
Laws and Rules for Florida Engineers, Pace, 2017.
Basic Engineering Ethics, Pace, 2017.
Repair of Rigid Pavement Using Epoxy, Failure & Damage Analysis, Inc., 2017.
Designing Foundation Repairs, Red Vector, 2017.
Rules of Professional Conduct, ASCE, 2017.
Wilshire Grand Center Design and Construction; North Carolina State University, 2017.
AAA Environmental; Asbestos Operations & Maintenance Update, 2017.
Excel Tribometers, LLC; Certified XL Tribometrist Certification Program, 2016.
NCSU Civil Engineering Department; Protecting New Orleans – Gulf West Closure Complex; 2.0 Hours; September 12, 2016.
Durham-Orange County Light Rail Transit Program; ASCE; 2016.
Building a Strong Foundation for Avoiding Catastrophic Losses; ASCE; 2016.
Wood Frame Design for Residential and Small Commercial Buildings; HalfMoon Education, Inc.; 2016.
Asbestos Operations & Maintenance Update; AAA Environmental; 2016, 2017, 2018.
Structural Investigation into Farmville Silo Fire; ASCE; 2016
Asbestos Operations & Maintenance for Class III Classification; The EI Group, Inc.; 2015.
Overview of NC Unmanned Aircraft System, ASCE; 2015
Hazmat First Responder Operations Training; HazMat Student, LLC; 2015.
Sinkhole Remediation at the National Corvette Museum; ASCE; 2015.
Forensic Investigations; Unified Investigations & Sciences, Inc.; 2015.
Globally Harmonized System of Classification and Labeling of Chemicals; Unified Investigations & Sciences, Inc.; 2015.

Specialized Education (Continued):

Fire Investigator Scene Safety; The International Association of Arson Investigators, Inc 2015.
Arc Mapping Basics; The International Association of Arson Investigators, Inc; 2015.
Wind Energy in North Carolina and the Southeast; ASCE; 2015.
Technical Workshop, GeoStructures, Inc.;2014
Ethics in Engineering, ASCE 2014
North Carolina Board of Engineering Rules and Regulations. ASCE 2014
Rebuilding the World Trade Center, NC State University; 2014
A Fleet in Transition; Duke Energy; 2014
New Changes at the NCDENR and their impacts across the State, ASCE; 2014
North Carolina State Construction Office Conference, 2014
The new State Water Infrastructure Authority and the State of NC's water resources, ASCE, 2014
Rules, regulations and ethics for Florida Professional Engineer, SunCam, Inc., 2014
An Introduction to Tensioned Fabric Structures, ASCE, 2013
Design and Manufacture steel and Aluminum Drainage Solutions, Contech Engineered Solutions, LLC, 2013
The Planning Process for the Union Station Project, ASCE, 2013
Geofoam - A lightweight Fill Alternative, ASCE, 2013
Roundabout vs. Signalized and Unsignalized Intersections: Safety and Operation Concerns, ASCE, 2013
A Brief History of The Bonner Bridge along with Foundation Design Aspects of the Replacement, ASCE, 2013
North Carolina State Construction Office Conference, 2013
Development of Rational Design Procedure for Precast Concert Spandrel Beams, ASCE, 2013
Creating a Language of Architecture: Burj Khalifa and Beyond, NCSU Dr. Zia Lecture, 2013
Mechanics' Liens in North Carolina - Where have we been, where are we now, and where are, we going?ASCE, 2013
Structural Safety in Nuclear Power Plants, ASCE, 2012
NCDOT's Response to Hurricane Irene on Route NC 12, ASHE, 2012
Mobile Crane Lifting and Lift Plans, ASCE, 2012
North Carolina State Dam Safety Program, ASCE, 2012
NCDOT Environmental Streamlining Process Update, ASHE, 2012
Building Energy Efficiency and The Cost of Deferred Maintenance, ASCE, 2012
Expanding the Panama Canal, NC State University Dr. Zia Lecture, 2012
Florida Laws and Rules, Engineer Educators, 2012
Florida Building Code Primer, Engineer Educators, 2012
Solar Energy Today, ASCE, 2012
Practical Considerations Related to the use of Alternative Backfill Materials for Flexible Soil-
interaction Structure Installation, Contech Engineered Solutions, LLC, 2012
I-40: The Rockslide of 2009, ASCE, 2011
Mechanistic Empirical Pavement Design, ASHE, 2011
Geotechnical Aspects of the Cape Hatteras Light Station Move, ASCE, 2011
Design of the New Base Entry Point and Highways for Camp Lejeune, NC, ASCE, 2011
Report on Projects and Activities of the Engineers Without Borders, ASCE, 2011
North Carolina Transportation Update, ASCE, 2011
Recent Changes to G.S. 89C and the Board Rules and CPC requirements, ASCE, 2011
Dynamic Compaction of Soil Subgrade, ASCE, 2011
Development of the Triangle Expressway, North Carolina's first Modern Toll Road, ASCE, 2011
Infrastructure Report Cards - America's and North Carolina's, ASCE, 2011

Specialized Education (Continued):

The Design and Construction of the Linville Land Harbor Dam, ASCE, 2011
Technical Presentation, CONTECH Construction Products, 2010
North Carolina Turnpike Authority: What is the Status Today?, ASCE, 2010
NC State Construction Office Conference, 2010
Balancing the Ground Water Equation of Sustainability, ASCE, 2010
The I-35W Bridge Failure in Perspective, ASCE, 2010
The In-Depth Assessment of the Bonner Bridge, ASCE, 2010
Rock Mass Characterization: A vehicle to translate Geology into the design of Engineering Structures, ASCE, 2010
2012 NC Building Codes Updates, ASCE, 2010
Success and Failure in Design, ASCE, 2010
Hillsborough Street Roundabouts: How it Came to Be, ASHE, 2010

Education:

Bachelor of Science, Civil Engineering, Iowa State University, Ames, Iowa 1979

Affiliations:

American Society of Civil Engineers (ASCE)
Raleigh Claims Association
Hampton Roads Claims Association