

## Patrick Rutledge PE | Civil Engineer

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### Professional Summary:

Mr. Rutledge is a graduate of University of Central Florida with a Bachelor of Science Degree in Civil Engineering. He has experience performing forensic inspections of existing residential and commercial structures to determine causes of structural and other various building failures. Mr. Rutledge has experience with field investigation work regarding assessment of building damage due to weather conditions and construction or design defects. Mr. Rutledge has executed the development and production of full residential and commercial site plans. His civil engineering experience also includes the development and permitting of commercial, residential and roadway projects.

Mr. Rutledge's expertise includes:

- Roof Damage and Investigations
- Moisture Intrusion Investigations
- Structural Failures
- Wood and Tile Flooring Failures
- Plumbing Failures
- Fire Damage
- Foundation Failures
- Seawall and Dock Structures
- Truss Inspections
- Building Code Research
- Site Development and Construction
- Transportation Design and Construction

### Licenses and Certifications:

Professional Engineer (Additional states available upon application):

Florida, 69975

Mississippi, 30786

Georgia, 044207

Virginia, 0402061854

North Carolina, 048184

Texas 133467

### Expert Witness Testimony: Court Qualifications/Depositions/Testimony:

*List of Litigation and Expert Witness Testimony Experience is Available Upon Request*

### Professional Experience:

EFI Global, Forensic Engineer, 2018-Present

U.S. Forensics, Civil/Structural Engineer, 2016-2017

Donan Engineering, Forensic Engineer, 2014-2016

Engineered Permits, Inc., Project Engineer, 2008-2014

Johnson Mirmiran & Thompson, Design Engineer, 2006-2008

Engineered Permits, Inc., Project Engineer, 2005-2006

Ghyabi & Associates, Project Engineer, 2005

SRD Engineers, Designer, 2002-2005

Consolidated Survey, Inc., Field and Cad Technician, 2001-2002

#### **Formal Education:**

Bachelor of Science, Civil Engineering, University of Central Florida, Orlando, Florida, 2004

#### **Specialized Education/Training:**

Masonry Design: Installation and Workmanship

Roofing Certification Level 100

Roofing Certification Level 200

Roofing Certification Level 300

Florida Advanced Building Code

Deterioration of Concrete

Flood Investigation Training

Wind/Hail 101

HAAG Certified Inspector – Residential Roofs

Wind Loads ASCE 7-10

Hurricane Damage Investigation: Wind vs. Water

Florida Building Code Advanced Structural Summary

Roofing Materials – Asphalt Shingles

Leak Detection for Roofs

Prescriptive Method for Structural Insulated Panels (SIPs) in Construction

Durability by Design

Advanced Fabricated Building

Construction Site Safety

Bases and Subbases for Concrete Pavements

Concrete Construction

Corrosion Protection of Metal Fasteners in Coastal Regions

Fundamentals of Wood Construction

Movement Joints in Brick Masonry

Commercial Plumbing Systems Essentials

**Specialized Education/Training (Continued):**

The Science of Mold  
Water Well Design  
Structural Steel - An Introduction  
Understanding Moisture Intrusion and Its Impact on Mold Growth  
Mold Remediation  
Mold Basics  
Septic System Design  
Roofing Materials - Concrete Tiles  
Stucco in Home Building for Home Inspectors  
Grading and Drainage Design  
Introduction to Sustainable Roof Technologies  
Seawalls and Boat Docks for Home Inspectors  
Reinforced Concrete Tilt-Up Panels  
Accessible Bathrooms  
Hurricane Damage: Wind vs. Water Determination  
Fire Essentials and Fire Science  
Completing the Mold Remediation  
2020 Advanced Florida Building Code - Building, 7th Edition  
Anatomy of Construction Defects  
Soils and Foundations: The Low Down on Dirt  
Commercial Structural and Building Systems Essentials  
Structural Masonry Materials  
Wind Design Using ASCE 7-10  
Wind Design Using ASCE 7-16  
Designing Buildings for Tornadoes