

Christopher “Mark” Green | Civil Engineer, PE

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Professional Summary:

Mr. Green worked for the U.S. Army Corps of Engineers Mobile District as a Civil Engineer for over 8 years. He served as project engineer for multiple civil projects and geotechnical engineer for numerous military projects throughout the United States. He performed inspections and developed designs on various federal projects, such as, locks, dams, and levees. He has responded to flood events and developed emergency action scenarios for training. While working as a forensic engineer with Unified for the last 2 years he has inspected both storm damage and fire damage to commercial and residential structures. He has prepared numerous inspection reports detailing the inspection findings and provided recommendations as required. He is professionally licensed in Alabama, Florida, Louisiana, and Mississippi. The following are some of his pertinent areas of expertise:

- Deep Foundation Design of Pile Foundations (Auger Cast, Driven, and Stone Columns)
- Shallow Foundation Design with Engineered Fill and Soil Improvement
- Stormwater Infiltration Testing and Detention Pond Design
- Retaining Wall, Flood Wall, and Bulkhead Inspection and Design
- Design and Inspection of Locks, Levees, and Dams
- Beach Restoration, Shore Stabilization Design, and Dredging
- Assessing Storm Related Structural Damages to Residential and Commercial Structures
- Assessing Settlement Related Structural Damages to Residential Structures
- Assessing Fire Related Damages to both Commercial and Residential Structures
- Assessing Flood Related Structural Damages and Geotechnical Damages

Licenses and Certifications:

Licensed Professional Civil Engineer – State of Alabama, License Number 33585

Licensed Professional Civil Engineer – State of Florida, License Number 81932

Licensed Professional Civil Engineer – State of Louisiana, License Number 41204

Licensed Professional Civil Engineer – State of Mississippi, License Number 28114

Project Experience:

U.S. Army of Corps of Engineers, Mobile, AL Military Projects – Vertical Construction

Mr. Green designed foundations for single and multi-Story structures for both the Army and Air Force. Tasks included the investigation of in situ soils and the design of foundations to support new construction given the site conditions. Geotechnical reports were provided and drawings with specifications prepared for bidding. He designed the auger cast pile foundation for the multi-story Visiting Quarters at MacDill Air Force Base in Tampa, Florida and designed many of the shallow foundations for the Army's Seventh Special Forces Complex at Eglin AFB in Northwest Florida. He designed multiple shallow foundations for Eglin AFB and Hurlburt Field. He provided quality assurance for the Army Material Command Headquarters located at Redstone Arsenal in Huntsville, Alabama. He also designed multiple foundations for new military construction at Fort Rucker in Enterprise, Alabama. He has performed numerous geotechnical investigations for new roadways, airfields, drainage systems, and detention ponds for the military.

U.S. Army of Corps of Engineers, Mobile, AL Civil Works Projects

Mr. Green designed beach restoration projects along the Mississippi Gulf Coast to address beach erosion from Hurricane Katrina, including the installation of geo-tubes at Bayou Caddy, Mississippi. He was involved with emergency levee surveillance and repair along the Missouri River in the Omaha District during the 2011 floods. As part of the Dam Safety Program he evaluated numerous locks and dams along the Canal Section of the Tennessee-Tombigbee Waterway in Mississippi. He was part of the Levee Safety Program in the Mobile District and conducted numerous inspections of the federal levee systems located in Alabama and Georgia. He designed levee repairs and assisted communities in the development of their Emergency Action Plans in the event of flooding. He served as the principal steward of four separate lock and dam projects located in the Mobile District. He provided quality assurance as the onsite geotechnical engineer for the Bolivar Dam Seepage Barrier Project during its construction in Bolivar, Ohio for the Huntington District. Mr. Green performed the geotechnical investigation and design for the Pascagoula Ship Channel Widening and managed this project through construction.

Unified Investigations & Sciences, Inc, Mobile, AL Forensic Investigations

While with Unified, Mr. Green performed the forensic inspection and analysis of the settlement issues and slope/riverbank stability problems at the Riverwalk Casino located in Vicksburg, Mississippi along the Mississippi River. He conducted an inspection and analysis of a sheet pile bulkhead failure at the Buffalo Marine located in Mobile, Alabama at the Alabama State Docks. He performed numerous roof inspections of both commercial and residential roofs after Hurricane Maria throughout Florida. He inspected the LSU Dental School in New Orleans, Louisiana when it flooded during renovation and construction. Mr. Green has inspected both commercial and residential fire damage and made structural recommendations when requested. He responded to the 2016 floods in Baton Rouge, Louisiana and in 2018 to Hurricane Michael in Panama City, Florida by inspecting numerous residences and businesses for storm damage.

Professional Experience:

EFI Global /Unified Investigations and Sciences, Inc., Forensic Engineer, 2016 – present

U.S. Army Corps of Engineers, Civil/Project/Geotechnical Engineer, 2007 – 2016

Specialized Education:

Florida Engineers: Professional Ethics (Biennium Cycle 2017-2019)

Ethics for Licensed Professionals, PDHonline/Huang, 2017

Fire Protection Fundamentals, PDHengineer/Liescheidt, 2017

Physical Properties and Moisture Relations of Wood, CPE Solutions/Finger, 2017

Introduction to Structural Design Criteria of Buildings, CPE Solutions/Finger, 2017

Design Guidelines and Standards for Historic Districts, CPE Solutions/Finger, 2017

Introduction to Drainage Pipe Strength, Cover and Bedding, CPE Solutions/Finger, 2017

Tornado Risks and Hazards, CPE Solutions/Finger, 2016

Bio-deterioration of Wood, CPE Solutions/Finger, 2016

Masonry Details, CPE Solutions/Finger, 2016

8-Hour HAZWOPER Refresher Training, U.S. Army Corps of Engineers/Mallory, 2016

Education:

Bachelor of Science, Civil Engineering, University of South Alabama, Mobile, AL, 2007

Bachelor of Arts, Philosophy, University of South Alabama, Mobile, AL, 1996

Affiliations:

Tau Beta Pi Engineering Honor Society

Honors and Awards:

Achievement Medal for Civilian Service, U.S. Army Corps of Engineers - 2011

Commanders Award for Civilian Service, U.S. Army Corps of Engineers - 2016