

Justin D. Cox, P.E. | Senior Forensic Engineer

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Professional Summary:

Mr. Cox is a Registered Professional Engineer and has over 15 years of experience in forensic engineering, structural design, construction management, and building envelope design. Mr. Cox specializes in forensic engineering and his experience includes assessments of construction deficiencies associated with large/complex projects, structural evaluations of building components due to various natural hazards, moisture intrusion assessments, and building envelope evaluations.

Area of expertise include, but is not limited to, the following:

- Evaluation of construction deficiencies
- Determination of structural damage to due ground movement
- Evaluation of hurricane damage to structures
- Evaluation of damage from flooding
- Evaluation of damage to structures from vehicular impact
- Structural assessment of damage from fires
- Assessment of roofs for presence of wind/hail damage
- Evaluation of flooring damage
- Structural assessment of collapse of building component
- Evaluation of damage to retaining walls
- Assessment of structures damaged by earthquakes
- Assessment of damages from construction-induced vibrations
- Evaluation of damage to pools
- Assessment of structures damaged by moisture intrusion
- Evaluation of structures for preparation of design specifications/project manuals
- Construction project management
- Structural design and preparation of permit drawings/specification
- Drawing/specification review

Licenses and Certifications:

Professional Engineer, State of Florida (License Number: 78052)

Professional Engineer, State of Louisiana (License Number: 44923)

Professional Engineer, State of Colorado (License Number: 53025)

Sample Project Experience:

GHD, Tampa, FL **Structural Forensic Investigations**

Performed unbiased, third-party forensic investigations of roofing systems, foundation systems, and building envelopes. Investigated structural damages caused by perils such as tornadoes,

hail, high winds, vehicle collisions, and tree impact. Investigations encompassed both residential and commercial structures.

**Karins Engineering Group, St. Petersburg, FL
Restoration Engineering**

Visual evaluation of existing components that included structural steel, reinforced concrete, wood-framing, waterproofing, roofing, pavements/pavers, cementitious finishes (stucco), coatings, and other components. Determined the extent of damage and reparability of components and provided specifications for the restoration and/or replacement of said components.

Brief Description of Project

Professional Experience:

EFI Global, Inc., Senior Forensic Engineer, 2020 - Present
NV5, Senior Forensic Engineer, 2019-2020
GHD, Senior Forensic Engineer, 2015-2019
Karins Engineering Group, Restoration Engineer, 2015
SDII Global, Forensic Engineer, 2012-2015
AMEC (formerly BCI Engineers & Scientists), Forensic Staff Engineer, 2010-2012
The Structures Group, Engineering Intern, 2009-2010

Continuing Education:

Guidance and Recommendations for Seismic Evaluation and Retrofit – 2024
Vale Advanced Roofing Certification - 2023
Protecting Homes from High Wind - 2023
Elevating Homes for Flood Protection - 2023
Fiber Reinforcement Polymers - 2022
Practical Forensic Engineering – Part 1, 2022
Practical Forensic Engineering – Part 2 – Appliance Water Losses, 2022
FIU University Bridge Collapse, 2022
Design of Buildings in High Wind Coastal Areas, 2020
Tornado Risks and Hazards in Southeastern USA, 2020
Asphalt Shingle Roofing for High Wind Regions, 2018
Roof to Wall Flashing, 2018
Ethical Issues in Forensic Engineering, 2018
Coatings and Paint, 2018
Structural Forensic Failures, 2018
Concrete Waterproofing with Crystalline Technology, 2017
Concrete Crack Repair 1 & 2, 2017
Ethical Issues with Hyatt Collapse, 2017

Education:

Bachelor of Science in Civil Engineering, Structural Focus, University of South Florida, Tampa, FL, 2010