

FORCON INTERNATIONAL

RYAN MURRAY, P.E.

SUMMARY

Mr. Murray is a professional engineer with 16 years of experience that encompasses a broad spectrum of design, research, construction and forensics among various disciplines of the Civil Engineering field including coastal, geotechnical, forensic, transportation and water resources. In the coastal/marine engineering field, Mr. Murray has been involved with the design, permitting and construction of varying types of coastal/marine projects including coastal structures (seawalls, piers, docks, etc.) and has provided post-hurricane field support and damage assessments in conjunction with the FDEP. Additionally, he has completed numerous forensic investigations of coastal/marine structures such as marinas, seawalls and small craft harbors as well as providing recommendations/designs for the re-construction or repair of these structures.

Mr. Murray's structural and forensic background consists of numerous investigations of residential and commercial property damage as a result of natural disasters and accidents, both for private clients as well as insurance companies and attorneys. In addition, he has provided expert witness testimony as it pertains to these projects. Ryan has investigated damage reported to roofs (both from hail and wind), foundations, seawalls, moisture intrusion, structural components as well as lightning damage, fire damage, flood damage and wind versus wave damage analyses. Additionally, he has performed investigations of subsidence/sinkhole damage in accordance with FGS Special Publication No. 57 and performed Neutral Evaluations in accordance with Florida Statutes 627.7074.

EDUCATION

Master of Science in Civil Engineering – University of Central Florida, Orlando, FL, 2003

Bachelor of Science in Civil Engineering - University of Central Florida, Orlando, FL, 2001

REGISTRATIONS & CERTIFICATIONS

Registered Professional Engineer in the following States:

- Florida # 66503
- Texas # 127807 (Inactive)

Haag Certified Residential Roof Inspector, No.: 201908209

Florida Certified Neutral Evaluator # 0057

Florida Supreme Court Certified Circuit Civil Mediator # 27156R (Inactive)

PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineering (ASCE), GEO-Institute & COPRI

Forensic Expert Witness Association (FEWA)

MENSA

CAREER HISTORY

FORCON International – Civil Engineer, Independent Contractor

Conducting Forensic Investigations and Analysis as it relates to his field of expertise.

Seawall & Dock Inspection – President/Principal Engineer

- Responsible for day to day operations of the business including of staff management, sales, marketing, proposal development, contract negotiation, financial management and other tasks.

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- Performed over 100 forensic investigations of coastal structures and facilities including: seawalls/bulkheads, dock structures, yacht clubs and marinas.

Subsurface & Coastal Engineering Services, LLC – President/Principal Engineer

- Responsible for day to day operations of the business including of staff management, sales, marketing, proposal development, contract negotiation, financial management and other tasks.
- Performed numerous forensic investigations for residential and commercial property insurance claims consisting of moisture intrusion, roof damage (hail and wind), flooring damage, structural damage, wind versus wave analysis, flood damage, fire damage, lightning damage, settlement/subsidence damage along with other scopes of work.
- Performed numerous forensic investigations of marine structures (in conjunction with Seawall & Dock Inspection), residential & commercial buildings and auxiliary structures (retaining walls, etc.).
- Successfully completed over 175 subsidence related projects (both structural damage & sinkhole loss) including Neutral Evaluations, Peer Reviews and Sinkhole Remediation and Foundation Stabilization design projects.
- Provided litigation support (depositions, etc.) in conjunction with forensic and expert witness projects.
- Engineering Design projects across several disciplines of Civil Engineering from structural engineering for residential & commercial buildings to coastal engineering for seawalls/bulkheads and dock structures: Tasks included design calculations, plan and specification production, RFP/RFQ development and construction administration.
- State and Federal regulatory permitting with FDEP (CCCL and ERP), USACE and WMD's.

CONTECH Construction Products, Inc. – Project Consultant/Sales Engineer

- Responsible for business development and outside field marketing of CONTECH to a broad client base: including engineers/specifiers, developers, governments, owners and others.
- Worked in conjunction with numerous engineering firms and state/local municipalities to provide applicable product solutions and design assistance for CONTECH manufactured products.

PBS&J

Coastal & Waterways Engineer

- Oversaw all construction & design activities for 4 coastal counties while working in conjunction with FDEP-BBCS; provided coastal construction consultation and permitting to local contractors, homeowners and engineers; post-hurricane/TS damage assessments and reports.
- Worked on a variety of other coastal and marine engineering projects throughout the state ranging from forensic structural investigations to preliminary development plans for coastal communities and design of coastal structures including marinas.

Transportation Drainage Engineer

- Work included modeling of complex water resources systems, plan production, pipe and open channel flow calculations, watershed modeling, report writing and client interaction.

University of Central Florida - Research/Teaching Assistant

- Assembled 1-D hydrodynamic model (FLDWAV) and 2-D circulation model (ADCIRC) of Waccamaw River, SC in conjunction with National Weather Service's Southeast River Forecast Center (SERFC).
- Taught senior undergraduate level hydrology lab. Guided 20-30 students in report writing, hydrology software applications & advanced MS Excel.