

**RYAN MURRAY, PE**

## **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
- Georgia # 46491
- Louisiana # 45176
- Texas # 127807
- Mississippi # 31497

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)

National Society of Professional Engineers (NSPE)

## **CAREER HISTORY**

### **FORCON International – Civil/Structural Engineer**

Conducting forensic investigations and providing expert witness services as it relates to his areas of expertise.

# FORCON INTERNATIONAL

## **Structural & 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 residential and/or commercial buildings, auxiliary structures (retaining walls, etc.) and coastal structures/facilities including seawalls/bulkheads, dock structures, yacht clubs and marinas.
- 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 and/or commercial buildings, retaining walls, sheet pile walls (seawalls/bulkheads), dock structures and marine/coastal facilities such as small craft harbors and marinas: 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.

## **SPEAKING ENGAGEMENTS**

***“Advances in Erosion Control Methodology and Application”*** – American Public Works Association Annual Conference; 2011.

***“Innovation in Storm Sewer Technology”*** – American Public Works Association Annual Conference; 2010.

# FORCON INTERNATIONAL

## Ryan Murray, PE - Deposition and/or Testimony Summary

<i>Date</i>	<i>Event</i>	<i>Role</i>	<i>Plaintiff</i>	<i>Defendant</i>	<i>County</i>	<i>Case No.</i>
4/5/2012	Deposition	Neutral Evaluator	Frank Paino	Tower Hill	Hernando	CA-11-1193
5/8/2013	Deposition	Plaintiff expert	Robert & Crystal Sullivan	Citizens	Hernando	H-27-CA-2011-001568
5/30/2013	Deposition	Neutral Evaluator	Manuel F. Pola	Tower Hill	Miami Dade	11 37700 CA30
8/14/2014	Deposition	Neutral Evaluator	Jonathan Johnson & Christa Genovese	Universal	Marion	13-1590-CAG
12/17/2014	Deposition	Neutral Evaluator	Juan Valladrez & Ligia Petroche	Liberty Mutual	Marion	5:13-cv-614-OC-10
7/29/2015	Deposition	Neutral Evaluator	Richard & Elizabeth Truax	Citizens	Pasco	2013-CA-3363 WS
6/1/2016	Deposition	Neutral Evaluator	Winfred Fowler	FIGA	Hillsborough	
11/2/2016	Deposition	Neutral Evaluator	Mus and Amira Guci	State Farm	Duval	2012-CA-12570
9/14/2018	Deposition	Plaintiff expert	Gabriel Sanchez	Universal	Marion	2015-CA-001598
7/12/2019	Deposition	Defense Expert	Patrick & Suzette Browne	People's Trust	Brevard	05-2017-CC-056721
4/9/2020	Mediation	Plaintiff expert	The Palm Club Condominiums	S.E. Cline Construction	Flagler	N/A
5/11/2021	Deposition	Defense Expert	Richard & Jacqueline Perron	American Integrity	Orange	2020-CA-006746