



Ms. Anesta's background is rooted in structural and civil design, construction inspections, and multi-discipline engineering consultation and project management. She has personally designed numerous structures throughout South Florida, including single-family residences, multi-story hotels, commercial retail and warehouses, emergency operation centers, hurricane shelters, recreation centers, and water/wastewater treatment facilities. She also has extensive experience in the assessment of structural integrity, building failure, demolition, and property damage assessment, as well as seawall and retaining wall design.

Experienced in the management, design, investigation, demolition, and inspection of new construction and existing buildings for multi-discipline and structural projects in the Private and Public Sectors, she utilizes her advanced engineering knowledge, problem-solving approach, and project management skills to serve as a Forensic Expert for property damage, construction claims, commercial liability, and product liability. Fluent in the lifecycle of buildings, civil structures, retaining and seawalls, and marine structures, she is able to contribute to, optimize, and lead projects in a clear and honest manner, with the ultimate goal of providing quality work that Clients can rely on.

She has served as an Expert in forensic engineering investigations and depositions for both Plaintiffs and Defendants, involving structural failure, property losses, and construction defect matters. She has testified as an Expert in Depositions, Arbitrations, and Trials. She acts as a Consultant to homeowners, attorneys, insurance companies, adjustment firms, government entities, and other forensic engineering firms. She is a FEMA Subject Matter Expert and FEMA Adjunct Instructor in the field of Structural Engineering, and has assisted as a Structural First Responder in Hurricane Florence (2018), Hurricane Dorian (2019), the Surfside Building Collapse (2021), Hurricane Ida (2021), Hurricane Ian (2022), Hurricane Idalia (2023), New Mexico Wildfires & Floods (2024), Hurricane Helene (2024), Hurricane Milton (2024), and the Venezuelan Earthquakes (2026). Additionally, she has performed structural evaluations of damaged structures following Hurricanes Matthew (2016), Irma (2017), Florence (2018), Michael (2018), Dorian (2019), and Sally (2020), as well as other named and unnamed storm events in Florida.

Heather is an Advanced Structures Specialist on FEMA Urban Search and Rescue Florida Task Force 1, and she serves as a Structures Specialist on the FEMA DHS Incident Support Team and Structures Advisory Subgroup. She is a member of the ASCE 7 Wind Load Subcommittee, the ASCE 7-28 Wind Advisory Panel, the NCEES Structural Engineers Exam Development Committee (SE Licensing Exam Development), and is the Chair of the ASCE 11-28 Standard "Structural Condition Assessment of Existing Buildings". She is a Structural Subject Matter Expert on the FEMA Compass Mitigation Assessment Team, and is a Member of the Florida Building Commission Existing Building Inspection Workgroup, charged with providing recommendations to the Legislature regarding Florida's aging buildings' Milestone Inspection Program.

## EDUCATION

Master of Science in Civil-Structural Engineering, Florida Atlantic University, Boca Raton, Florida, 2010  
Bachelor of Science in Civil-Structural Engineering, Florida State University, Tallahassee, Florida, 2007

## REGISTRATIONS

Professional Engineer #74733, State of Florida  
Florida Board Recognized Structural Engineer, State of Florida  
Structural Engineer #018.0120343, State of Vermont  
StS2, Advanced Structures Specialist, FEMA Urban Search & Rescue  
SCS, Structural Collapse Specialist, FEMA Urban Search & Rescue

## EMPLOYMENT HISTORY

|                                                       |                |
|-------------------------------------------------------|----------------|
| Anesta Consulting, Inc., President & CEO              | 2015 – Present |
| Rimkus Consulting Group, Senior Consultant            | 2015 – 2022    |
| Stantec Consulting, Inc., Associate, Project Engineer | 2012 – 2015    |
| C3TS, P.A., Project Manager, Project Engineer         | 2009 – 2012    |
| Walsh Engineering, Inc., Structural Designer          | 2006 – 2009    |
| McDaniel Engineering, Undergraduate Internship        | 2005 – 2006    |

*A full list of Design, Assessment, Advisory, and Project Management Experience is available upon request.*



## Forensic Investigations & Expert Opinions

Various Property & Construction Inspections & Reviews for Cause, Origin, and Duration of Damage

- Building Envelope
- Catastrophic Events
- Collapse
- Construction Claims
- Construction Defects
- Construction Materials
- Corrosion
- Damage to Structural and Aesthetic elements
- Fire Damage
- Flooring
- Foundation Issues & Settlement
- Marine
- Moisture Exposure & Duration
- Peer Reviews
- Pool Damage
- Roof Damage
- Storm-related Damage including Wind, Hail, Flood, Surge, and Rain
- Structural Design, Installation, & Condition of Concrete, Masonry, Steel, Timber, Foundations, Cladding, Finishes, and other materials
- Structural Integrity Evaluations
- Vehicle Impact
- Water Intrusion
- Water Leaks

## Deposition, Arbitration, and Trial Experience

Ms. Anesta has provided deposition, arbitration, and trial testimony in Florida for plaintiffs and defendants.

- *Roof Damage Cause, Origin, & Duration*
- *Water Damage Cause, Origin, & Duration*
- *Seawall Damage and Replacement*
- *Kitchen Cabinet Detachment Cause & Origin*
- *Floor Tile Delamination Cause & Origin*
- *Post-Tension Design, Installation, & Encapsulation Condition*
- *Reinforced Concrete Design, Installation, & Condition*
- *Stucco and Waterproofing Condition*
- *Structural Damage, Deterioration, and Distress*
- *Storm-related Damage*

## Design, Consultation, and Management Experience

| Structural Analysis & Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Structural Condition Assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <ul style="list-style-type: none"> <li>• Buildings               <ul style="list-style-type: none"> <li>○ <i>Low &amp; Mid-Rise Single-Family &amp; Multi-Family Residential, Commercial, Hotels</i></li> <li>○ <i>Concrete, CMU, Timber, Steel, Precast Concrete, Post-Tension Concrete</i></li> <li>○ <i>Feasibility Studies</i></li> <li>○ <i>Shallow and Deep Foundations</i></li> <li>○ <i>New Construction</i></li> <li>○ <i>Renovations</i></li> <li>○ <i>Repairs</i></li> </ul> </li> <li>• Civil Structures               <ul style="list-style-type: none"> <li>○ <i>Water Treatment Plants</i></li> <li>○ <i>Wastewater Treatment Plants</i></li> <li>○ <i>Lift Stations</i></li> <li>○ <i>Pump Stations</i></li> <li>○ <i>Fire Stations</i></li> <li>○ <i>Fleet Maintenance Buildings</i></li> </ul> </li> <li>• Marine               <ul style="list-style-type: none"> <li>○ <i>Boat Ramps, Boat Lifts</i></li> <li>○ <i>Seawalls</i></li> <li>○ <i>Stationary &amp; Floating Docks</i></li> <li>○ <i>Water Parks, Aquatic Parks</i></li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Buildings               <ul style="list-style-type: none"> <li>○ <i>Low, Mid, &amp; High-Rise Single-Family &amp; Multi-Family Residential, Commercial, Hotels</i></li> <li>○ <i>Concrete, CMU, Timber, Steel, Precast Concrete, Post-Tension Concrete</i></li> <li>○ <i>Shallow and Deep Foundations</i></li> <li>○ <i>Building Code Analysis</i></li> <li>○ <i>Reinforced Concrete Condition &amp; Corrosion</i></li> <li>○ <i>Repair Protocols</i></li> <li>○ <i>Retaining Walls</i></li> <li>○ <i>Structural and Civil Design Peer Reviews</i></li> </ul> </li> <li>• Civil Structures               <ul style="list-style-type: none"> <li>○ <i>Water Treatment Plants</i></li> <li>○ <i>Wastewater Treatment Plants</i></li> <li>○ <i>Lift Stations</i></li> <li>○ <i>Pump Stations</i></li> <li>○ <i>Fire Stations</i></li> <li>○ <i>Fleet Maintenance Buildings</i></li> </ul> </li> <li>• Marine               <ul style="list-style-type: none"> <li>○ <i>Boat Ramps, Boat Lifts</i></li> <li>○ <i>Corrosion – Steel and Concrete</i></li> <li>○ <i>Seawalls</i></li> <li>○ <i>Stationary &amp; Floating Docks</i></li> <li>○ <i>Water Parks, Aquatic Parks</i></li> </ul> </li> </ul> |
| <b>Demolition Consultation</b><br><b>Project Management &amp; Consultation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

*A full list of Design, Assessment, Advisory, and Project Management Experience is available upon request.*



## Management & Leadership Experience

|                                                                                                  |                |
|--------------------------------------------------------------------------------------------------|----------------|
| ASCE 11 Structural Condition Assessment of Existing Buildings – Chair                            | 2023 – Present |
| ASCE 7-28 Wind Load Subcommittee – Chapter 30, Components & Cladding Task Group Chair            | 2023 – Present |
| FEMA US&R Florida Task Force 1 – Structures Specialist Training Coordinator                      | 2022 – Present |
| ASCE 7-28 Wind Research Advisory Panel – Advisor                                                 | 2021 – Present |
| Soccer Association of Boca Raton – Adult Program Director, SafeSport Trained                     | 2020 – Present |
| HUD Residential Resilience Guidelines – Wind Task Group Leader & Advisory Group Member           | 2020 – 2022    |
| National Council of Structural Engineers Associations – SEER Committee Southeast Leader          | 2017 – 2021    |
| Florida Structural Engineers Association – South Florida Chapter Treasurer                       | 2015 – 2017    |
| ACE Mentorship – Structural Engineering Mentor & Coordinator                                     | 2013 – 2017    |
| Florida Structural Engineers Association – State Membership Committee Chair                      | 2013 – 2016    |
| Stantec Structural Discipline Coordination Leader – Quality Management                           | 2014 – 2015    |
| National Council of Structural Engineers Associations – Joint BEC & YMG Committee Project Leader | 2013 – 2014    |
| Stantec Leadership Development Program                                                           | 2013           |
| National Council of Structural Engineers Associations – Young Member Group Founder & Chair       | 2012 – 2014    |
| Florida Structural Engineers Association – Palm Beaches Young Member Group Founder & Chair       | 2011           |

## Team & Committee Positions

|                                                                                                       |                |
|-------------------------------------------------------------------------------------------------------|----------------|
| FEMA DHS US&R, Advisory Operations - Structures Subgroup, Voting Member                               | 2023 – Present |
| Florida Building Commission Existing Building Inspection Workgroup (FBC EBIWG) – Voting Member        | 2022 – Present |
| FEMA DHS US&R, Incident Support Team – Structures Specialist Alternate                                | 2021 – Present |
| FEMA Compass Mitigation Assessment Team – Technical Consultant & Subject Matter Expert                | 2018 – Present |
| FEMA US&R Florida Task Force 1 – Advanced Structures Specialist                                       | 2015 – Present |
| National Council of Examiners for Engineering and Surveying – Structural Exam Development Member      | 2015 – Present |
| SEI Manual of Practice, Guideline for Structural Condition Assessment of Existing Buildings – Advisor | 2021 – 2022    |
| HUD Residential Resilience Guideline – Technical Advisor                                              | 2019 – 2022    |
| ASCE 7-22 Wind Load Subcommittee – Associate Member                                                   | 2017 – 2021    |
| National Council of Structural Engineers Associations – SEER Committee Member                         | 2017 – 2021    |
| National Council of Structural Engineers Associations – Wind Advisory Committee Member                | 2015 – 2020    |
| Florida Structural Engineers Association – South Florida Chapter Board of Directors                   | 2013 – 2017    |
| National Council of Structural Engineers Associations – Continuing Education Committee Member         | 2014 – 2016    |
| National Council of Structural Engineers Associations – Young Member Group Committee Member           | 2012 – 2016    |
| FES-FICE – Structural Committee Member                                                                | 2013 – 2014    |

## Relevant Awards & Certificates

|                                                                                                            |      |
|------------------------------------------------------------------------------------------------------------|------|
| FEMA NIMS ICS All-Hazards Division/Group Supervisor Course (L0960)                                         | 2023 |
| U.S. Fire Administration (USFA) Type 3 All-Hazards Incident Management Team (AHIMT) Program (O-305)        | 2022 |
| FEMA US&R Heavy Equipment & Rigging Specialist (HERS)                                                      | 2022 |
| FLUSAR Rope Rescue Operations                                                                              | 2022 |
| FEMA Incident Command System 300 & 400 Certified, Management of Advanced, Complex, and Expanding Incidents | 2021 |
| FEMA Adjunct Instructor & Subject Matter Expert (Structural)                                               | 2019 |
| SCS – Structural Collapse Specialist (Rescue Specialist) (FEMA Urban Search & Rescue)                      | 2018 |
| PADI Certified Diver                                                                                       | 2018 |
| StS2 – Advanced Structures Specialist (FEMA Urban Search & Rescue)                                         | 2017 |
| Level I “Authorized Person” Rope Access Training                                                           | 2016 |
| StS1 – Structures Specialist 1 (FEMA Urban Search & Rescue)                                                | 2015 |
| Stantec Emerging Leader                                                                                    | 2013 |
| National Council of Structural Engineers Associations – Young Member Award                                 | 2012 |
| Certified Masonry Inspector; Masonry Institute of America                                                  | 2012 |
| LEED Accredited Professional, US Green Building Council                                                    | 2009 |

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## Lectures & Instructor Engagements

|                                                                                                                 |            |
|-----------------------------------------------------------------------------------------------------------------|------------|
| Structural Condition Assessment of Existing Buildings: Standards & Guidance, ASCE/SEI Structures Congress       | 2025       |
| US&R Secondary Collapse Prevention, South Carolina State Fire                                                   | 2025       |
| Enclosure Strategies for Damaging Winds, Tropical Storms, and Hurricanes, facades+                              | 2025       |
| Minimizing Risk of Secondary Collapse, National US&R Conference                                                 | 2023, 2024 |
| Building Collapse Analysis & Stability Monitoring, Collapse Module – FEMA US&R, StS Regional Trainings          | 2023, 2024 |
| Building Collapse Analysis, Stability Monitoring, & Surfside Collapse Case Study – FEMA US&R, FL-TF1            | 2022       |
| Evaluation of Building Structural Stability – A Qualitative Approach, ASCE Learning, Webinar                    | 2022       |
| Main Wind Force Design of Low-Rise Buildings, ASCE Learning, Virtual Workshop                                   | 2021       |
| Wind Design of Non-Rectangular Low-Rise Buildings, ASCE Learning, Webinar & Virtual Workshop                    | 2021, 2022 |
| Structural Collapse Specialist Course (SCS4.0), FEMA Adjunct Instructor, FEMA FL-TF1 Training Site, Kendall, FL | 2019       |
| Lessons Learned as a Rescue Engineer during Hurricane Florence, MDRF OEM, Miami, FL                             | 2019       |

## Publications

|                                                                                                            |             |
|------------------------------------------------------------------------------------------------------------|-------------|
| ASCE/SEI 11 Structural Condition Assessment of Existing Buildings                                          | In Progress |
| SEI Manual of Practice, Guideline for SCA of Existing Buildings [ASCE 11-99/MOP 158], Technical Consultant | 2024        |
| FEMA P-2342: Hurricane Ian in Florida MAT Report & Advisories 1-3, Technical Consultant                    | 2023        |
| HUD Residential Resilience Guidelines for Builders & Developers, Technical Consultant                      | 2023        |
| FEMA P-2077: Hurricane Michael in Florida MAT Report & Advisories 1 & 2, Technical Consultant              | 2019        |

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