



# Alex Puig, PE

## Senior Engineer

954.522.6446     [Alex@21st-centuryengineering.com](mailto:Alex@21st-centuryengineering.com)

Alex has more than 20 years of experience in structural analysis and design, failure analysis, and project management. He has designed various types of structures including commercial and residential buildings and various other civil structures. He has extensive experience in project management and forensic cause and origin investigations and analysis. He is experienced in the application of various historical building codes and their enforcement to ensure proper compliance. Mr. Puig has significant experience in performing field investigations to determine the cause and origin of various types of structural damage including natural disasters, windstorms, hail, and floods. He has written literally thousands of reports documenting the findings of the field investigations.

Bachelor of Science  
Civil Engineering  
University of Miami

Bachelor of Science  
Civil Engineering  
ISPJAE University, Cuba

Professional Registration  
P.E. Florida #60220  
Structural Engineering  
#1674-1105

### PRIMARY AREAS OF CONSULTING

- **Engineering Design and Analysis**
  - Design of paving, drainage and site utilities
  - Design of water and sewer services
  - Structural Design of residential, commercial and multi-family structures
- **Structural Evaluations**
  - Balcony and wall failure
  - Code issues
  - Collapse analysis
  - Commercial, residential and industrial buildings
  - Flood/surge assessment
  - Impact damage from tree, automobile, projectile, etc.
  - Material failure
  - Wind damage
- **General Damage Assessment**
  - Cost evaluations
  - Fire damaged structures
  - Flooring
  - Foundation/wall evaluations, including sinkholes
  - Structural collapse
  - Water and sewer pipe failure
- **Roof System Evaluations for Commercial, Residential and Industrial Buildings**
  - Cause, nature and damage evaluation for wind, hail and impact
  - Installation errors
  - Quality failure
  - Reconstruction monitoring and analysis
- **General Engineering**
  - Building code compliance
  - Drainage and flooding
  - Swimming pools and other buried structures

Alex Puig, cont.

- **Moisture Source Evaluations**
  - Cause, source and damage assessment
  - Code issues
  - Cost evaluations
  - Window, door and wall failure analysis
- **Building Envelope Evaluations**
  - Condition assessments
  - Construction defects
  - Structural loading
  - Thermographic scanning and interpretation
  - Waterproofing the building envelope
  - Windows (air, water thermal resistance and condensation)
- **Litigation**
  - Expert witness
  - Exhibit design and preparation
  - Support