



REGISTRATIONS

- Texas, P.E. License No. 104971
- Florida, P.E. License No. 76230

EDUCATION

The University of Texas at Austin *M.S. Structural Engineering, 2006*

The University of Texas at Austin *B.S. Civil Engineering, 2003*

PRACTICE AREAS

- Forensic Investigation
- Structural Evaluation, Analysis, and Design
- Materials Evaluation
- Repair and Remediation
- Destructive and Nondestructive Testing
- Litigation Support

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- Structural Engineers Association of Texas (SEAoT)
- American Society of Civil Engineers (ASCE)

EXPERIENCE

Carlos Garza has performed structural investigations at CA involving construction and design materials failures, defects. and structural collapses. The investigations have included detailed condition assessments, structural modeling and analysis, concrete material analysis, and design and implementation of repairs. In addition, Carlos Garza has performed numerous evaluations of structures distressed due to durability and/or material issues including structures affected by alkali-aggregate reaction, corrosion, sulfate attack, and delayed ettringite formation. Further, while at CA, Carlos Garza has acquired the training and experience in detailed performing and of comprehensive investigations commercial and residential structures subject to dynamic loadings and such as construction vibrations and seismic exploration activities.

Carlos Garza is currently licensed in Texas and Florida and has acquired training for the nondestructive evaluation of existing structures.

TECHNICAL COMMITTEES

ACI Committee 207 – Mass and Thermally Controlled Concrete ACI Committee 302 – Construction of Concrete Floors ACI Committee 544 – Fiber-Reinforced Concrete

SELECTED PROJECTS

Forensic Investigation

- Evaluation of Cement Storage Silo Roof Collapse in Miami, FL
- Tilt-up Panel Failure during construction in, Austin, Texas
- Evaluation of Distress in Double-Tee Concrete Beams of Parking Garages
- Seismic Analysis and Design Evaluation of Power Plant in Osceola, Arkansas
- Power Plant Scrubber Foundation Investigation and Structural Analysis in La Grange, TX
- Evaluation of Distress, Certification of Structural Integrity/Peer Review for Steel Framing, for Coliseum in San Juan, Puerto Rico
- Investigation and Structural Assessment of over 200 Structures Exposed to Ground Vibrations
- Structural Analysis and Evaluation of Distress of Steel Chimney at Power Plant in Mineral Wells, TX

Construction Materials and Durability

- Investigation of Distress in Fiber Reinforced Concrete Slabs-on-Grade, San Jose, Costa Rica
- Evaluation of a Correctional Complex Exhibiting Distress due to Materials Deficiencies, Kentucky
- Evaluation and Monitoring of Distress Observed in Structural Columns, Panama City, Panama
- Evaluation and Analysis of Flexible Pavements in Houston, TX

CONTACT INFO

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