



## STALIN ARMIJOS, PH.D. PROJECT ENGINEER

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### PRACTICE AREAS

- Structural Assessment
- Evaluation of Solar PV Power Generation Structures
- Instrumentation and Monitoring
- Structural Repairs and Strengthening
- Forensic Investigations

### REGISTRATIONS

- Professional Engineer: TX

### HONORS AND AWARDS

- Sarada M. and Raju A. Vinnakota Award, 2017 (Honorable mention)
- Walter L. and Reta Mae Moore Graduate Fellowship in Civil Engineering, 2013
- Fulbright Foreign Student Scholarship, 2013

### PROFESSIONAL ACTIVITIES

- American Institute of Steel Construction
- Structural Stability Research Council

### EDUCATION

Escuela Politécnica del Ejército (ESPE)  
B.S. Civil Engineering, 2009

The University of Texas at Austin  
M.S. Civil Engineering, 2015  
Ph.D. Civil Engineering, 2019

### EXPERIENCE

Stalin believes the beauty of engineering resides in understanding fundamental concepts and skilled implementation. His passion for structural engineering has presented challenges ranging from designing oil and gas facilities to investigating performance of steel bridges. His background includes analysis and design of steel and concrete structures subjected to dynamic loading.

### REPRESENTATIVE PROJECTS

**Solar Energy Projects** Performed multiple structural peer reviews of solar systems before construction and damage to existing systems.

**Failure Investigation at Utility Scale Solar Facilities** Performed investigations to determine the probable cause of the collapse of various single-axis trackers and fixed-tilt rack systems and developed retrofit suggestions.

**Anaerobic Digester Collapse** Performed investigation to determine the probable cause of the collapse of prestressed roof elements at an environmental facility. Evaluation included assessment of microbially-induced concrete disintegration.

**Post-Tensioned Bridge** Performed investigation to evaluate the as-built conditions of a 28-span segmental post-tensioned bridge. Developed repair solutions.

**Convention Center Evaluation** Assessed dynamic behavior of floor supported by 200-foot-long steel trusses. Evaluated strength of existing columns and truss members. Recommended retrofits to mitigate vibrations and address strength deficiencies.

**Evaluation and Repair of Stadiums** Assessed two football stadiums to determine the probable cause of distress. Developed repair recommendations.

**Water Steel Tank** Assessed the current condition of a steel tank to excessive foundation settlements.