



Tarun Pareek | Forensic Structural Engineer, P.E

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Professional Summary:

Mr. Pareek has 6 years of experience in structural engineering design including the design of electric power generating facilities, transmission lines, and telecommunication towers. His professional experience encompasses a broad spectrum of experience including wind and seismic loadings; design of steel fiber reinforced concrete, structural steel framing, reinforced concrete beams, columns, and foundations.

He currently serves as Structural Engineer and conducts forensic engineering investigations. His areas of expertise include, but are not limited to the following:

- Roof Evaluation
- Foundation Settlement Investigation
- Construction Defect Analysis
- Structural Damage Cause and Origin
- Collapse Evaluation

Licenses and Certifications:

Professional Engineer, TX, #123280

Professional Engineer, MS, #29466

Professional Engineer, NC, #047569

Project Experience:

Structural Damage Assessment, Insurance Client, Texas

Structural assessment and report associated with flood damage from hurricane Harvey for residence located in Houston, Texas.

Structural Investigation, Insurance Client, Texas

Structural investigation and report into the cause of cracks along recently placed concrete pavements being utilized as airport taxiway.

Structural Integrity Analysis, Insurance Client, Texas

Structural damage assessment and report for a single-family residence located in Splendora, Texas that sustained an impact from a front loader to the back of the residence. The report included assessment of the overall structural stability as well as repair recommendations.

Structural Damage Assessment, Insurance Client, Texas

Structural damage assessment and report for a fire damaged wood framed structure located in McAllen, Texas. The report included assessment of the overall structural stability as well as repair recommendations.

Structural Investigation, Insurance Client, Texas

Structural investigation and report into the cause of brick veneer collapse along a two storied apartment complex located in Wharton, Texas.

Structural Investigation, Insurance Client, Texas

Structural investigation and report into the cause of water infiltration along insulation under metal roof panels over outdoor storage units located in Dickenson, Texas.

Professional Experience:

Unified Investigations & Sciences, Inc., Forensic Structural Engineer, 2016 – Present
MasTec TSG, Substation Civil/Structural Engineer II, 2014 – 2016
Allpro Consulting Group, Inc., Staff Engineer, 2012 – 2014

Specialized Education:

International Association of Arson Investigators (IAAI) – CFITrainer.net.
Fundamentals of Residential Building Construction, 11/23/2016, 3 hours (tested).
Ethics & Social Media, 01/16/2016, 3 hours (tested).
Documenting The Event, 01/17/2016, 4 hours (tested).
Haag Certified Inspector - Residential Roofs, Haag Education, LLC, April 3-5, 2017, 20 hours (tested).
Haag Certified Inspector - Commercial Roofs, Haag Education, LLC, April 6-8, 2017, 20 hours (tested).

Education:

Master of Science in Civil Engineering with Structural Specialty, The University of Texas at Arlington, Arlington, Texas, 2011.

Publications and Presentations:

Liu, X., Pareek, T., and Chao, S. (2016), "New Methodology for Design and Construction of Concrete Members with Complex Stress Fields Using Steel Fiber-Reinforced Concrete" J.Struct.Eng.,

Chao, S.-H., Pareek, T., and Sahoo, D. R. (2011), "Effect of Fiber Reinforced Concrete in Members with Highly Complex Stress Fields," High Performance Fiber Reinforced Cement Composites (HPFRCC 6), International Workshop, Ann Arbor, MI., June 20-22, 2011

Dissertation (2011), "Use of Steel Fiber Reinforced Concrete in Structural Members with Highly Complex Stress Fields", 2011