

Amit S. Phanse | Forensic Structural Engineer, P.E. PMP.

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Professional Summary:

Amit has worked as a Structural Engineer for over 19 years. His most recent experience includes forensic investigation of different types of buildings and repair design of structural components. Previously, he has worked on the analysis and design of commercial and residential buildings for gravity and lateral loading per various building codes and standards. He is familiar with materials such as concrete, steel, wood, and masonry. He also has performed seismic and wind loading analysis/certifications for HVAC and MEP equipment. He is proficient in the following areas:

- Forensic investigation of residential and commercial building structures.
- Design of structural repairs to residential and commercial buildings.
- Structural analysis and design of buildings and HVAC/MEP equipment.
- Construction administration of commercial and residential building projects.
- Project management principles for engineering projects.

Licenses and Certifications:

Professional Engineer, Texas, #126256

Professional Engineer, Maryland, #39975

Project Management Professional, Project Management Institute

Project Experience:

EFI Global, Inc. Houston, TX.

Forensic Investigations of Residential and Commercial Properties

Forensic investigation of various buildings to determine the cause and origin of reported losses. The reports include a summary of the findings.

EFI Global, Inc. Houston, TX.

Structural Assessment of a Residential House Column

Structural damage assessment of a column for a residential structure located in Montgomery, Texas. The report included structural assessment summary and remedial recommendations.

EFI Global, Inc. Houston, TX.

Structural Investigation of a Residential Foundation

Structural investigation of a foundation for a residential structure located in Houston, Texas. The report included structural investigation summary and remedial recommendations.

Integrity Structural Corporation, Houston, TX.

Analysis and Design of Multistorey Wood Apartment Buildings

Structural analysis and design of multistorey wood apartment buildings, to be constructed at various locations in Colorado, for gravity and seismic/wind loading. Analysis and design of post tensioned slab on grade concrete foundations. Final deliverables were set of structural drawings.

TDi Engineering LLC, Cypress, TX.

Analysis and Design of Custom Houses

Structural analysis and design of custom-built wood houses, to be constructed at various locations in and around Houston, TX, for gravity and wind loading. Analysis and design of post tensioned slab on grade concrete foundations. Final deliverables were set of structural drawings.

VMC Group, Houston, TX.

IBC Certification of HVAC/MEP Equipment

Structural analysis and evaluation of commercial HVAC/MEP equipment for IBC code seismic/wind loading before shake testing at various universities testing laboratories. Final deliverables were reports, certificate of compliance and labels to be put on equipment.

Thornton Tomasetti, New York, NY.

Analysis and Design of Multistory Commercial Building Structures

Structural analysis and design of commercial buildings constructed using reinforced concrete and steel material for gravity and seismic/wind per IBC code and ASCE provisions. Final deliverables were set of structural drawings.

GACE Consulting Engineers, New York, NY.

Analysis and Design of Multistory Residential Apartment Building Structures

Structural analysis and design of residential apartment buildings constructed using reinforced concrete material for gravity and seismic/wind per IBC code and ASCE provisions. Final deliverables were set of structural drawings.

Professional Experience:

EFI Global, Inc. Forensic Structural Engineer, 2023 – Present.
Integrity Structural Corporation, Project Manager, 2023 – 2023.
TDi Engineering LLC, Project Manager, 2022 – 2023.
VMC Group, Project Manager, 2009 – 2022.
Thornton Tomasetti, Senior Engineer, 2006 – 2009.
GACE Consulting Engineers, Engineer, 2005 – 2006.

Education:

Master of Engineering, Civil Engineering, Lamar University, Beaumont, Texas, 2004.