Josh Hughes, P.E. | Principal Engineer

2275 La Cross Avenue, Suite 210, Colton, CA, 92324 *951-387-3548*
josh.hughes@efiglobal.com

Professional Summary:

Josh Hughes has 11 years of experience in architectural and structural engineering. He has conducted over 500 forensic engineering investigations, most of which have involved structural and building envelope (roof coverings, wall cladding, windows/fenestrations) damage and/or failures. His engineering experience includes root cause studies of structural failures and collapses, moisture intrusion, foundation settlement, damage assessment related to earthquake, fire, and storm events, water testing and destructive testing of various building assemblies, design of temporary and permanent repairs for damaged structures. He has participated in team-based production of construction drawings and calculations for single family and multi-family structures, and light-commercial projects.

Areas of expertise include:

- Design and analysis of wood, steel, concrete, and CMU structures
- Seismic and storm analysis of structures
- Water intrusion
- Damage assessment of structures
- Code and standards analysis

Licenses and Certifications:

Professional Engineer in Civil Engineering, State of California Board for professional Engineers, Land Surveyors, and Geologists, CA, License No C 90573

Professional Engineer in Civil Engineering, Arizona State Board of Technical Registration, AZ, License No 76605

Professional Engineer in Civil Engineering, Nevada State Board of Professional Engineers, NV, License No 030248

Professional Engineer in Civil Engineering, Texas State Board of Professional Engineers and Land Surveyors, TX, License No 146378

Project Experience:

Santa Barbara, California
Structural Repair of Moisture Damaged Parapet
Inspection of wood framed commercial structure damaged by water intrusion and determination of the necessary repairs as required by the building code. Prepared construction documents for repair of damaged parapet and glulam beam.

Ventura, California
Structural Repair of Moisture Damaged Shear Walls
Inspection of wood framed multi-family structure damaged by water intrusion and determination of the necessary repairs as required by the building code. Prepared construction documents for repair of the structures lateral force resisting system.

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South El Monte, California
Structural Damage Assessment
Investigated the extent of fire damage to a commercial building constructed of CMU and wood framing. Analysis included repair/replacement recommendations of the fire-damaged structural elements to the building.

Wickenburg, Arizona
Hail and Wind Damage Assessment
Performed forensic engineering investigation of a wood-framed residence for the extent of wind and hail damage and provided a written report of findings.

Van Nuys, California
Water Infiltration Assessment
Investigated the cause of water intrusion into several units at 390-apartment unit complex consisting of five structures. The investigation included the cause of damage to a subterranean concrete parking garage.

Whittier, California
Constructin Defect
Evaluated commercial building project site and files to investigate cause of soffit collapse during construction and resultant damage to structure.

Madera, California
Flood Damage Assessment
Performed a forensic engineering investigation of a single-family residence for damage caused by a canal breach that inundated the property with water.

Professional Experience:

EFI Global, Inc., Principal Engineer (current title), 2022 – Present
RRM Design Group, Project Engineer, 2018 – 2022
Universal Structural Engineers, Engineer, 2015 – 2018

Specialized Education:

CEA Earthquake Damage Assessment and Repair Training, 2025
Vale Advanced Roof Certification, 2022

Education:

Bachelor of Science, Civil Engineering, San Francisco State University, San Francisco, CA, 2013

Affiliations:

American Society of Civil Engineers (ASCE)
Structural Engineers Association of Central California (SEAOCC)

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