

## Mehrdad Hojjati, PE | Forensic Engineer

407 South 107th Avenue, Suite A-22, Tolleson, AZ 85353

602.329.2513

[mehrdad.hojjati@efiglobal.com](mailto:mehrdad.hojjati@efiglobal.com)

### Professional Summary:

Mr. Hojjati is a licensed professional engineer with over 10 years of experience in civil and structural engineering. His experience includes 3 years in construction of multi-family projects and 7 years in the production of construction drawings for single-family, multi-family, and commercial projects.

After earning his Bachelor's Degree in Civil Engineering from Kingston University, he earned his Master's Degree in Earthquake Engineering with Disaster Management from the University College London. Mr. Hojjati's engineering experience includes structural design and evaluation of wood, steel, concrete masonry units (CMU), and steel-reinforced concrete structures.

At EFI Global, Mr. Hojjati has worked with clients that include insurance carriers, adjusters, and others, in the following areas: storm-related distress, extent of structural fire damage and recommended repair, building envelope failures that include water intrusion, structural damage from vehicle impacts, foundation movement, damage from seismic activity, code compliance, and structural/construction defects. Mr. Hojjati has completed the Vale Advanced Roof Certification training and is versed in roofing failures for both residential and commercial structures. Roof evaluations have included hail and wind-related damage. As a forensic engineer, Mehrdad covers investigations in Arizona.

### Licenses and Certifications:

Professional Engineer in Civil Engineering, Arizona State Board of Technical Registration, AZ, License No 74020.

### Project Experience:

#### **Fire Damage Investigations, Lake Havasu City, AZ**

Performed structural assessment on fire damaged structures, provided written report of findings and repair recommendations. Measured depth of char on substantial wood elements to investigate if the element repaired in place rather than replaced.

#### **Foundation Settlement Investigations, Phoenix, AZ**

Performed floor elevation surveys to identify locations of settlement and provided written report of findings on residential damage due to foundation settlement. Referenced USDA web soil survey to gain perspective on soil type and possibility of expansive soils. Observed drywall, stucco and foundation cracks for signs of foundation settlement.

#### **Moisture Damage Investigation, Flagstaff, AZ**

Performed forensic engineering investigation of asphalt shingle roof system, framing, and exterior wall cladding on a single-family residential building for cause of moisture damage and provided a

written report of findings and recommendations. Exterior wall cladding included log siding. Visual assessment, moisture testing, and consulting were performed as part of the investigation.

**Hail and Wind Damage Investigation, Scottsdale, AZ**

Performed forensic engineering investigation of clay tile roof system for extent of hail and wind damage and provided a written report of findings and recommendations.

**Vehicle Impact Assessment, Phoenix, AZ**

Performed structural assessment, provided written report of findings and repair recommendations for exterior wall impacted by a vehicle. Referenced chapter 2 of the International Existing Building Code to determine damage was not substantial and could be restored to pre-damage condition.

**Structural Engineering Design of Detention Center  
Mesa County Detention Center, Mesa, CO**

Produced structural construction drawings and engineering calculations for a four-story detention center with CMU walls, post-tensioned concrete slabs and steel beams.

**Structural Engineering Design of Middle School  
Tillman Middle School, Phoenix, AZ**

Produced structural construction drawings and engineering calculations for a one-story school with CMU walls and steel joists.

**Structural Engineering Design of Townhomes  
Surprise Farms Townhomes, Surprise, AZ**

Produced structural construction drawings and engineering calculations for a two-story 3-plex with wood-framed walls and post-tensioned concrete slab.

**Professional Experience:**

EFI Global, Forensic Engineer, 2023 – Present  
Willis Engineering Inc., Project Engineer, 2020 – 2023  
MWG Structural, Structural Designer, 2020 – 2020  
DLR Group/WRL, Structural Designer, 2015 – 2020  
Pasargad Co., Civil Engineer, 2012 – 2015

**Specialized Education:**

Vale Roof Specialist Certification Course, 2023  
Pitched Roof Rope Access and Ladder Safety Training, EFI Global, 2023

**Education:**

Master of Science, Earthquake Engineering with Disaster Management, University College London (UCL), London, England, 2011  
Bachelor of Science, Civil Engineering, Kingston University, London, England, 2010

**Affiliations:**

Structural Engineers Association of Arizona (SEAoA)