

### Professional Summary:

Mr. Woodward has been involved in the design of hospitals, schools, various residential, commercial, and industrial structures, streets and parking lots, pools, retaining walls and patios. These included wood, reinforced concrete, steel and reinforced masonry structures. Most of his design work has been in California but his forensic work has been in California, in the Gulf States and Atlantic States for hurricane work, in Arizona for hail claims, in Colorado for snow load claims and in South Dakota for tornadoes. Mr. Woodward has worked with various state, county, and city governments. Mr. Woodward is familiar with The International Building Code, The International Residential Code, The American Society of Civil Engineer's (ASCE) Minimum Design Loads for Buildings and Other Structures, The American Wood Council's National Design Specifications, The American Steel Institute's Steel Construction Manual and the American Concrete Institute's ACI-318 Building Code Requirements for Structural Concrete and Commentary. Mr. Woodward's forensic experience includes moisture intrusion, drainage issues, settlement, slope creep and soil issues, wind claims, earthquake claims, flood claims, fire damage, vehicle impact damage, impact damage from trees and tree limbs, construction defect claims, blasting, pile driving and other construction vibration claims, flooring damage, structural framing damage, roofing damage and a wide variety of engineering issues.

#### Areas of Expertise:

- Civil Engineering including structural issues
- Water Intrusion
- Roofing

### Licenses and Certifications:

Professional Civil Engineer, State of California, #70759

Professional Engineer, State of Texas, #130764

Advanced Roofing Certification, Vale Training

California Earthquake Authority (CEA) Certification, California Fair Plan

### Project Experience:

#### **EFI Global, Bakersfield, CA Forensic Engineering Investigation**

The tenant of a large warehouse could not get a hold of the contractor they hired to remove an interior storage structure. The tenant went to the warehouse and found a large portion of the roof had failed. Performed forensic engineering investigation to determine the cause of the roof failure and provided written report with findings.

**EFI Global, Los Angeles, CA****Forensic Engineering Investigation**

The form work for a poured-in-place (PIP) concrete wall at a waste water treatment plant had collapsed during erection killing a construction worker. Performed forensic engineering investigation to determine the cause and provided written report with findings. The engineer of record had not included a detail for that area of the building, and the contractor took initiative to put up the form work without plans for that area.

**EFI Global, Goleta, CA****Forensic Investigation**

A college student at a fraternity house fell over a railing and died. Performed forensic investigation only to determine whether or not the railing was up to code. The railing was up to code when the building was constructed but was not up to current code.

**EFI Global, Wessington Springs, SD****Red, Yellow, and Green tagging buildings**

A tornado swept through the town. Performed investigations in various buildings to red, yellow, or green tag them.

**EFI Global, Vernon, CA****Forensic Engineering Investigation**

A glulam beam had deteriorated at a cold storage building. Performed forensic engineering investigation to determine cause and provided written report of findings.

**EFI Global, Humble, TX****Forensic Engineering Investigation**

Performed investigation to evaluate wide flange columns that anchored three guy wires for a radio tower on the roof of a volunteer fire station after Hurricane Ike. Provided written report of findings and recommendations.

**EFI Global, Spurger, TX****Forensic Engineering Investigation**

Performed forensic investigation to evaluate a convenience store where damage was claimed from Hurricane Laura. Provided written report of findings. Most of the damage was pre-existing, but the wind damaged some signs, and there was an impact mark in the siding.

**Professional Experience:**

EFI Global, Inc., Civil Engineer, 2008 – Present

Pool Engineering, Inc., Associate Engineer, 2004 – 2008

Du Mont Engineering, Inc., Structural Designer, 2002 - 2004

**Education:**

Master of Science, Civil Engineering emphasizing in Structural Engineering and minoring in Construction Management, California State University, Long Beach, 2014



Bachelor of Science, Civil Engineering emphasizing in Structural Engineering California State University, Long Beach, 2001

**Affiliations:**

American Society of Civil Engineers (ASCE)

American Concrete Institute (ACI)