

Ben Martineau | Forensic Consultant, E.I.T.

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Professional Summary:

Ben has been in the structural design field since he graduated college in 2020. His experience ranges from the structural design of custom residential homes, residential and commercial remodels, and wood-framed commercial buildings, as well as residential masonry and concrete structures and retaining walls. He has experience with local jurisdictions in California, Arizona, Nevada, Utah, and Missouri. Ben has a depth of knowledge of the International Building Code (IBC), California Building Code (CBC), National Design Specifications for Wood Design (NDS), The Masonry Society 402/602 Codes (TMS), The American Concrete Institute 318 (ACI), and the American Society of Civil Engineers 7 (ASCE-7).

Areas of Expertise:

- Civil/Structural Engineering
- Structural Design
- Forensic Engineering and Investigation
- Light-frame Wood Construction
- Retaining Wall Design

Licenses and Certifications:

EIT Certificate, Division of Professional Licensing, UT

Project Experience:

Oppus Residence, Oakland, CA

Performed structural damage assessment of wood framed residence after impact with mortar vehicle. Produced a report detailing extent of structural damage associated with the impact and scope of work required to return the structure to the pre-impact condition.

Gray Residence, Danville, CA

Completed floor level survey and visual observations to house regarding possible foundation movement due to a plumbing leak. Opined on the scope of foundation movement observed in the residence and additional reasonable causes. Produced a detailed report showing floor level conditions, addressing attribution of settlement to plumbing leak and analyzing the underlying soil conditions experienced on the lot of the subject property.

Vincent Residence, Pioneer, CA

Evaluated the roof framing system and asphalt shingle roof for claimed damage related to snow load. Produced a detailed report regarding the cause of the discovered damage to the roof.

Wood Residence, Mokelumne Hill, CA

Observed site of broken water main repaired by public utility company and analyzed residence

located downstream regarding claimed damages. Evaluated site grade due to flooded water from water main and confirmed claim of undermined foundation due to flooding. Produced a report detailing observations and conclusions regarding conditions.

Dolan Residence, Merced, CA

Performed analysis of the roof and building envelope to determine the cause of moisture infiltration after heavy winds and rains. Produced a report opining on the cause of infiltration, ruling out unsubstantiated claims regarding cause.

Jones Residence, Pioneer, CA

Evaluated the truss roof system for a claim regarding sagging ceilings noticed after high snow loads. Analyzed existing deformed trusses for code compliance and repair requirements. Performed ceiling level survey. Provided repair information and detailed report regarding the cause of the discovered roof damage.

Marsh Residence, San Pablo, CA

Evaluated the extent of damage to the residence caused by sequential vandalism, arson, and fire suppression efforts. Authored a report detailing degrees of damage, cause, and scope of repairs, along with required truss repairs.

Lady M Pastry Shop, Los Altos, CA

Completed structural observations for a restaurant/retail unit adjoined to a larger commercial building scheduled for demolition. Performed visual inspection and floor level survey of the remaining unit after demolition of adjacent structure. Produced a report detailing before and after conditions of the structure and provided recommendations for repairs due to damage caused during demolition. Provided requirements for repair based on applicable code standards.

Vipin-Chaturvedi Residence, San Diego County, CA

Structural Design of Custom Residence

The scope of the project included lateral and vertical force transfer, design of custom vaulted ceiling tower, custom steel connections, and coordination of long span trusses with custom detailing and specifications.

Professional Experience:

EFI Global, Forensic Consultant, Since 2023

Crowther Engineering, Structural Engineer-in-Training/Designer, 2020 – 2023

Hales Engineering, Transportation Engineering/Design Intern, 2019 – 2020

J&M Engineering, Structural Engineering Intern, 2018 – 2019

Education:

B.S. Civil and Environmental Engineering, Brigham Young University, Provo, Utah, 2020