



# HALLIWELL

## SOFIA CASTANEDA, EIT

ENGINEERING INTERN, CIVIL/STRUCTURAL  
ENGINEERING SERVICES

LOS ANGELES, CA

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### SPECIALTIES

- Structural Evaluations
- Structural Failure Cause and Extent of Damage
- Advanced Structural Analysis
- Roofing Systems
- Non-Destructive Evaluation
- Roof Collapse/Damage

### BIOGRAPHY

Sofia is an Engineer-in-Training with a strong foundation in design, analysis, and assessment of civil structures. She has done so through coursework in timber design, steel design, reinforced and prestressed concrete, structural analysis, non-destructive evaluation, and structural health monitoring. Sofia is highly motivated to apply this expertise in practice and continue developing as an engineer, with the goal of obtaining a Professional Engineer (PE) license.

### QUALIFICATIONS

M.S. Structural Engineering, University of California San Diego

B.S. Structural Engineering, University of California San Diego

### INDUSTRY CERTIFICATIONS, LICENSES AND MEMBERSHIPS

- Engineer-in-Training (EIT)

### PROFESSIONAL EXPERIENCE

- Halliwell, Engineering Intern, Civil/Structural Engineering Services

### REPRESENTATIVE ASSIGNMENTS

#### Fire Investigations

##### Apartment Complex Fire Investigation | Alpharetta, GA

Analyzed site inspected data to determine the extent of damage to the structural framing and the applicable code upgrades to a 28-unit apartment building following a fire.

#### Structural Defect/Collapse/Uplift Investigations

##### Warehouse Roof Damage Investigation | Tracy, CA

Analyzed site inspected data to investigate the origin and cause of cracking developed in timber purlins and excessive deflection in the roof members.

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### **Warehouse Damage Investigation | Homerville, GA**

Hurricane Helene. Analyzed site inspected data to determine the extent of damage to seven buildings' structural elements and thermoplastic polyolefin (TPO) membranes on a property including 19 structures.

### **Commercial Building Roof Collapse Investigation | Vista, CA**

Performed site inspection and structural analysis of roof framing to determine the origin and cause of a roof collapse in a commercial building consisting of CMU walls, steel posts, and timber roof framing.