



## PERSONNEL QUALIFICATIONS

### Michael A. Greer | Senior Associate



#### EXPERIENCE

Michael Greer joined WJE in 2014. He has expertise in the design and retrofit of structures and failure investigations. He is proficient in the design of wood, concrete, masonry, and steel structures with retrofit design experience ranging in size and scope from single element to large custom fabrication solutions for entire structures. Mr. Greer has experience working with industrial, residential, commercial, and historic structures, and has project experience in Hawaii, California, Chile, El Salvador, and Guam.

- Hawaii State Capitol - Honolulu: Investigation and structural design for replacement of fifth-level facades
- Kaka'ako Commerce Center - Honolulu, HI: Parking deck corrosion investigation and repair design
- Banyan Tree Plaza - Honolulu, HI: Window wall repair design due to walking glass

#### Historic Preservation

- Basilica del Salvador - Santiago, Chile: Temporary seismic retrofit of partially collapsed unreinforced brick cathedral built in the 1800s\*

*\*Indicates with previous firms*

#### EDUCATION

- California State University, Chico
  - Bachelor of Science, Civil Engineering, 2007
- Stanford University
  - Masters of Science, Structural Engineering, 2010

#### PRACTICE AREAS

- Failure Investigation
- Structural Design
- Repair and Rehabilitation Design
- Historic Preservation

#### REGISTRATIONS

- FHWA-NHI Trained Bridge Inspector
- Professional Engineer in CA and Guam
- Structural Engineer in Guam and HI

#### PROFESSIONAL AFFILIATIONS

- American Council of Engineering Companies of Hawaii (ACECH)
- Structural Engineers Association of Hawaii (SEAOH)

#### AWARDS

- 2007 ASCE Award for Professionalism

#### CONTACT

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#### REPRESENTATIVE PROJECTS

##### Failure Investigation

- Power Plant - Piti, Guam: Structural condition survey of fire and explosion damage
- Tilt-up Concrete Walls - Kapolei, HI: Investigation, including laboratory testing, of construction chemical performance failure
- Residential Vehicle Impact - Kahului, HI: Investigation of structural damage from vehicle impact to structure
- Hawaii Kai Clinic - Honolulu, HI: Investigation of flooring deterioration issues
- Diamond Head Ambassador - Honolulu, HI: Water infiltration investigation

##### Structural Design

- Ala Moana Ewa Expansion - Honolulu, HI: Design of new stone facade anchors
- Ritz Carlton Residences - Honolulu, HI: Design of new stone feature wall anchors
- VYNCKE Plant - Mejillones, Chile: New construction of a large steel industrial structure in a very high-seismic region\*
- Garlinghouse Residence - Atherton, CA: New construction of three-story wood custom home\*
- Birch Plaza - Palo Alto, CA: New construction of four-story, multiuse building of wood, steel, and concrete construction\*

##### Repair and Rehabilitation Design

- Hilo Federal Building Elevator Replacement - Hilo, HI: Design of structural supports for new elevators in existing structure with limited as-built information

#### PUBLICATIONS

- Greer, Michael et al. 2014. Retrofit, using seismic isolation, of the heavily damaged Basilica del Salvador in Santiago, Chile. Paper presented at the New Zealand Society for Earthquake Engineering Conference, Auckland, New Zealand
- Greer, Michael et al. 2014. Effects of the Seismic Vertical Component on Structural Behavior - An Analytical Study of Current Code Practices and Potential Areas of Improvement. Paper presented at the Tenth U.S. National Conference on Earthquake Engineering, Anchorage, AK