

# Brandon W. Erickson, PE, SE

## CURRICULUM VITAE



**ERICKSON STRUCTURAL**  
CONSULTING ENGINEERS, PC

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### INTRODUCTION

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Brandon W. Erickson, PE, SE is a principal and founder of Erickson Structural Consulting Engineers, PC, a consulting structural engineering firm located in Vancouver, Washington with a satellite office in Kihei, Hawaii. Mr. Erickson's practice focuses upon:

- Forensic investigations of building structures and failures
- Assessments of, and remediation design for, distressed building structures
- Investigations of construction defects and design errors
- Design of structural renovations and modifications to existing buildings
- Evaluation of insurance claims involving structural loss
- Structural analyses of existing buildings
- Seismic evaluations and upgrades

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### EDUCATION

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**Bachelor of Science, Civil Engineering**  
*Brigham Young University*  
Provo, Utah

**Master of Science, Structural Engineering**  
*Stanford University*  
Stanford, California

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### PROFESSIONAL LICENSES

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Structural Engineering Licenses:

- Washington – License No. 38582
- Oregon – License No. 65812PE
- Hawaii – License No. PE12219
- California License No. 58918 – Civil; and License No. 4592 – Structural
- Idaho – License No. P-11446
- Utah – License No. 323798-220
- Nevada – License No. 23162
- Arizona – License No. 60759

Civil Engineering Licenses (authorized to practice structural engineering):

- Alaska – License No. 11420
- Montana – License No. 30868PE

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### EMPLOYMENT

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June 2010 to present	Erickson Structural Consulting Engineers, PC, Principal and Founder Vancouver, Washington & Kihei, Hawaii
January 2004 to June 2010	Roggenkamp Erickson & Associates, PC, Principal and Co-Founder Vancouver, Washington
November 2001 to January 2004	Kramer Gehlen & Associates, Inc., Project Engineer Vancouver, Washington
July 1997 to November 2001	Degenkolb Engineers, Design Engineer Portland, Oregon

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### CERTIFICATIONS, DESIGNATIONS AND APPOINTMENTS

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#### Certifications

- Structural Engineering Certification Board (SECB) Certification No. 1912-1105

#### Designations

- Professional Reviewer for the Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS). Mr. Erickson has reviewed and opined upon the technical merits of allegations of structural engineering negligence or incompetence brought to the attention of OSBEELS.
- State of Oregon Post-Earthquake Damage General Inspector, License No. 430GQI

#### Appointments

- Structural Engineering Advisory Committee, City of Portland, Oregon, Bureau of Development Services, 2011-2017. Mr. Erickson advised the Director and/or the Appeals Board in structural engineering matters relative to reasonable code interpretation and to alternate materials, design and methods of construction.
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### SPEAKING ENGAGEMENTS

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- 7th Annual Construction Defects Conference: Update and Strategies, *The Consultant's Perspective on Construction Defects and Design Errors, Working Effectively with Experts*, Seattle, Washington, December 2010
  - 11<sup>th</sup> Annual RCI Hawaii Winter Workshop, *The Consequential Structural Effects of Improper Design or Installation of Non-Structural Systems*, Honolulu, Hawaii, January 2011
  - Structural Engineers Association of Washington NW Conference, *Seismic Upgrades Using Center Coring: An Introduction and Case Study*, Spokane, Washington, September 2011
  - Brigham Young University, *The Art of Engineering with Existing Building Structures*, Provo, Utah, February 2012
  - Lecturer at Portland State University, *Forensic Structural Engineering Case Studies*, Portland, Oregon, 2013 – 2019
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### WEBINARS

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- Produced Webinar for Fyfe Company, LLC, *Introduction to ASCE 41, Seismic Rehabilitation of Existing Buildings*, October 2011

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### **PUBLICATIONS**

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#### Author

- *Seismic Upgrades: It's Not as Hard as You Think*, Vancouver Business Journal, April 12, 2013
- *Building "Failures" and How to Avoid Them*, Vancouver Business Journal, April 11, 2014
- *How NOT to Select a Building Design Consultant*, Vancouver Business Journal, August 15, 2014
- *Lessons Learned from the Napa Quake*, Vancouver Business Journal, October 3, 2014
- *Build or Renovate?*, Vancouver Business Journal, April 10, 2015
- *Tips for Hiring and Retaining Design Professionals*, Vancouver Business Journal, August 14, 2015
- *Recovering from a Property Damage Loss*, Vancouver Business Journal, June 24, 2016
- *Understanding Earthquake Retrofit Strategies*, Vancouver Business Journal, December 2, 2016
- *Engineering a Fix for America's Aging Infrastructure*, Vancouver Business Journal, April 14, 2017
- *Seismic Upgrade Requirements: It's Time to Follow Portland's Lead*, Vancouver Business Journal, October 6, 2017
- *What to Do When Your Building Has a Significant Defect*, Vancouver Business Journal, December 7, 2018
- *Learning from Others Who Also Live in Earthquake Country*, Vancouver Business Journal, August 16, 2019

#### Co-Author

- *Improving the Way Washington State Hires Consultants*, Vancouver Business Journal, October 5, 2018

#### Interviewee

- *Seismic Upgrades & the Mega Earthquake*, Vancouver Business Journal, February 5, 2016

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### **REPRESENTATIVE EXPERIENCE**

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#### **Litigation Support**

Mr. Erickson has testified as an expert witness at trial, arbitration and deposition proceedings. Examples of matters which Mr. Erickson has functioned as an expert witness and/or consultant are summarized below:

- Industrial Warehouse Corrosion Assessment and Remediation, Dayton, Oregon
- High-Rise Vacation Resort, Concrete Balcony Failure Assessment, Seaside, Oregon
- Nature Resort, Guardrail Structural Failure Assessment, Cave Junction, Oregon
- Construction Accident, Assessment of Tower Crane Collapse, Bellevue, Washington
- Single-Family Residence, Assessment of Structural Damage, Longview, Washington
- Assessment of Abandoned Concrete Structure, Ridgefield, Washington
- Window Structure Failure Assessment, High School Cafeteria, Kent, Washington
- Single-Family Residence, Assessment of Structural Distress, Spokane, Washington
- Fire-damaged Building Assessment, Portland, Oregon
- Single Family Residence, Assessment of Construction Defects and Design Error, Camas, Washington
- Single Family Residence, Assessment of Construction Defects and Design Errors, Happy Valley, Oregon
- Corporate Headquarters Office, Construction Defect and Design Error Assessment, Kahului, Maui, Hawaii
- Resort Condominiums, Assessment of Structural Modifications to Lanais (appointed by Circuit Court of the Second Circuit, State of Hawaii, as a neutral Structural Engineering Master), Kahana, Maui, Hawaii
- Luxury Resort Condominiums, Construction Defect and Design Error Assessment and Remediation, Wailea, Maui, Hawaii
- Custom Residence, Construction Defect and Design Error Assessment, Waianae, Oahu, Hawaii

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### REPRESENTATIVE EXPERIENCE (continued)

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#### Litigation Support (continued)

- Multi-Building Residential Development, Investigation of Structural Distress, Wailuku, Maui, Hawaii
- Custom Residence, Construction Defect and Design Error Assessment, Makawoa, Maui, Hawaii
- Custom Residence, Assessment of Soil Settlement-Induced Structural Damage, Makawao, Maui, Hawaii
- Theater and Showroom, Construction Defect and Design Error Assessment, Waikiki, Oahu, Hawaii
- Single-Family Residence, Investigation of Soil Settlement-Induced Structural Damage, Honolulu, Hawaii
- Resort Condominiums, Assessment of Seismic Upgrade Design, Napili, Maui, Hawaii
- Custom Residence, Assessment of Construction Defects, Honolulu, Hawaii
- Custom Residence, Assessment of Defective Concrete Slab, Haiku, Maui, Hawaii
- High Rise Condominium, Assessment of Concrete Spalling, Honolulu, Hawaii

#### Distressed Building Evaluations and Structural Forensics

- Consolidated Office Supply, Assessment and Repair of Structural Deterioration, Tualatin, Oregon
- Cameron Family Glass Packaging, Assessment of Heat-Damaged Steel Roof Framing, Kalama, Washington
- Western States Chiropractic College Anatomy Laboratory, Structural Condition Assessment, Portland, Oregon
- Hollywood Video Corporate Warehouse, Partial Roof Collapse, Investigation and Design of Emergency Repairs, Wilsonville, Oregon
- Clark Public Utilities, Investigation of Structural Damage to Adjacent Residences Due to Well-Drilling Activities, Vancouver, Washington
- Woodburn High School, Assessment of Structural Fire Damage, Woodburn, Oregon
- Grandview on the Lake, Investigation of Structural Distress to Parking Structure, Chelan, Washington
- Rock Creek Condominiums, Assessment and Remediation Design of Structural Deterioration, Rockaway Beach, Oregon
- Liberty Village at Sugarhouse, Evaluation of Excessive Structural Joint Movement, Salt Lake City, Utah
- Portland State University, Assessment of Structural Distress to Residential Buildings, Portland, Oregon
- Wishram School, Assessment of Structural Distress in Gymnasium Walls, Wishram, Washington
- Kona Pacific Condominiums, Assessment of Structural Deterioration, Kailua-Kona, Hawaii
- Kapalua Golf Villas, Assessment of Structural Modifications, Kapalua, Maui, Hawaii
- Honokeana Cove Condominiums, Assessment and Monitoring of Structural Distress, Napili, Maui, Hawaii
- Maui Banyan Condominiums, Assessment of Parking Garage Distress and Corrosion, Kihei, Maui, Hawaii
- Hawaii Carpenters Union Training Facility, Assessment of Building Distress, Kapolei, Oahu, Hawaii
- Ironwoods Condominiums, Assessment of Building Distress and Construction Defects, Kapalua, Maui, Hawaii
- Maui Eldorado Parking Garage, Assessment of Structural Corrosion and Distress, Kaanapali, Maui, Hawaii
- Imi Ikena Apartments, Assessment of Vibration-Induced Structural Damage Due to Adjacent Pile Driving, Wailuku, Hawaii
- Wilcox Social Hall, Assessment of Structural Distress, Kalaupapa, Molokai, Hawaii
- Kihei Surfside Condominiums, Assessment and Remediation of Structurally Distressed Lanais, Floor Slabs, Elevated Walkways, Columns and Spalled Concrete, Kihei, Maui, Hawaii

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### REPRESENTATIVE EXPERIENCE (continued)

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#### Distressed Building Evaluations and Structural Forensics (continued)

- Brigham Young University Hawaii, Assessment of Roof Soffits and Classroom Ceilings Collapse Hazards, Laie, Oahu, Hawaii
- Kaupo General Store, Assessment of Building Distress and Termite Damage, Kaupo, Maui, Hawaii

#### Design of Structural Repairs

- Kiggins Bowl, Design of Structural Repairs to Roof Structure and Columns, Vancouver, Washington
- Wimbledon Square Apartments, Design of Structural Repairs for Fire Damage, Portland, Oregon
- Madera Townhouses, Design of Structural Repairs for Fire Damage, Sherwood, Oregon
- Sinnott Building, Design of Repairs to Mitigate a "Dangerous Building" Designation, Portland, Oregon
- 1844 SE Hawthorne, Design of Structural Repairs for Fire Damage, Portland, Oregon
- Crown Villa Apartments, Design of Structural Repairs for Deteriorated Framing, Camas, Washington
- Hogan Woods Apartments, Design of Structural Repairs and Replacement of Decks, Gresham, Oregon
- Deseret Industries, Evaluation and Design of Structural Roof Repairs, Portland, Oregon
- Multiple Single-Family Residences, Design of Structural Repairs for Fire Damage, Multiple Locations in Washington and Oregon
- Beverly Court Apartments, Failed Brick Façade Evaluation and Repair, Vancouver, Washington
- Hidden Court Apartments, Design of Structural Repairs for Fire Damage, Portland, Oregon
- Maui Sunset Condominiums, Spalled Concrete and Corroded Steel Columns Evaluation and Repairs, - Kihei, Hawaii
- Wailea Palms Condominiums, Assessment and Remediation Design of Lanai Concrete Cracking and Spalling, Wailea, Maui, Hawaii
- Ironwoods Condominiums, Design of Structural Repairs to Distressed Roof and Floor Framing, Kapalua, Maui, Hawaii
- St. Francis Church, Design of Structural Repairs to Roof Framing, Kalaupapa, Molokai, Hawaii
- Makani a Kai Condominiums, Structural Evaluation and Remediation Design, Maalaea Bay, Maui, Hawaii
- Maalaea Yacht Marina Condominiums, Structural Remediation Design, Maalaea Bay, Maui, Hawaii
- Napili Surf Resort, Structural Upgrade and Remediation, Napili, Maui, Hawaii

#### Insurance Claims Investigations

- Confidential claims throughout Washington, Oregon, Hawaii, Idaho, Utah, Alaska and Montana. Retained to identify and report upon the proximate cause(s) of structural loss(es) and recommend structural remediation options. Services provided for multiple insurers.

#### Seismic Evaluation and Rehabilitation

- Providence Academy, Seismic Upgrade and Historical Restoration, Vancouver, Washington
- The Church of Jesus Christ of Latter-day Saints, Meetinghouse Seismic Evaluation and Upgrade, Multiple Locations in Oregon, Washington, Alaska, and California
- Water Tower Building, Seismic Evaluation, Portland, Oregon
- Cascade Middle School, Seismic Evaluation, Longview, Washington
- Onalaska High School Gymnasium, Cafeteria & Band Room Building, Seismic Evaluation, Onalaska, Washington
- Washington State School for the Blind Boiler Building, Seismic Evaluation, Vancouver, Washington
- The Hotel Adler, Seismic Evaluation, Portland, Oregon

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### REPRESENTATIVE EXPERIENCE (continued)

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#### Seismic Evaluation and Rehabilitation (continued)

- McMenamins Crystal Ballroom, Seismic Evaluation Upgrade Using Center Core Methodology, Portland, Oregon
- Monticello Middle School, Seismic Evaluation, Longview, Washington
- McMenamins Mission Theater, Seismic Evaluation, Design of Seismic Upgrade and Expansion, Portland, Oregon
- Washington State School of the Blind, R. Walter Dry Building Seismic Evaluation and Upgrade, Vancouver, Washington
- Albers Mill Building, Seismic Evaluation, Portland, Oregon
- Portland Temple, The Church of Jesus Christ of Latter-day Saints, Seismic Evaluation and Rehabilitation, Portland, Oregon
- Post-Earthquake Reconnaissance, Seattle, Washington – 2001, Wells, Nevada – 2008, Napa, California – 2014, Anchorage, Alaska – 2018. (Mr. Erickson is ATC-20 trained)
- Brigham Young University Hawaii, Seismic and Structural Assessment of Library, Laie, Oahu, Hawaii
- Brigham Young University Hawaii, Seismic and Structural Assessment of Ballroom, Laie, Oahu, Hawaii
- Tokyo Temple, The Church of Jesus Christ of Latter-day Saints, Seismic Evaluation, Tokyo, Japan

#### Building Additions and Renovations

- Barnes Elementary School, Addition and Renovation, Kelso, Washington
- Cowlitz County Historical Museum, Addition and Remodel, Longview, Washington
- Water Tower Office and Retail Building, Renovation, Portland, Oregon
- Beaverton Bike Gallery, Addition and Remodel, Beaverton, Oregon
- McMenamins Tavern and Pub, Remodel and Expansion, Portland, Oregon
- The Church of Jesus Christ of Latter-day Saints, Meetinghouse Addition and Renovation, Multiple Locations in Oregon, Washington and Alaska
- Gateway Community Church, Addition and Renovation, Washougal, Washington
- Columbia Analytical Labs, Expansion, Kelso, Washington
- St. Paul High School, Addition and Remodel, St. Paul, Oregon
- Wells Fargo Barnhart Center, Structural Renovation, Beaverton, Oregon
- Dr. Church Dental Office, Addition to Existing Building, Vancouver, Washington
- Yale Elementary School Gymnasium, Structural Strengthening and Seismic Upgrade, Ariel, Washington
- Birch Street Uptown Lounge, Structural Renovation, Camas, Washington
- Wailea Ekahi Condominiums Renovations and Addition of Pool Pavilion, Wailea, Maui, Hawaii

#### Structural Analyses

- Clark County Fire District #6, Station #1, Structural Evaluation of Floor Framing, Vancouver, Washington
- Montgomery Park Building, Structural Evaluation of Concrete Floor Slab, Portland, Oregon
- C-Tran Maintenance Building, Assessment of Roof Structure, Vancouver, Washington
- The Church of Jesus Christ of Latter-day Saints, Evaluation of Historic Heavy Timber Roof Trusses, Klamath Falls, Oregon
- Moonstruck Chocolate Co., Structural Evaluation of Concrete Floor Slab, Portland, Oregon
- Old Wailuku Post Office, Structural Feasibility Assessment of Proposed Conversion to Office Use, Wailuku, Maui, Hawaii
- Pu'uone Hale Ali'i Condominiums, Structural Condition Assessment, Wailuku, Maui, Hawaii

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### REPRESENTATIVE EXPERIENCE (continued)

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#### Structural Analyses (continued)

- Haleakala Shores Condominiums, Assessment of Structural Implications of Proposed Renovations, Kihei, Maui, Hawaii
- Hale Pau Hana Condominiums, Assessment and Remediation of Distressed Elevated Concrete Floor Slab, Kihei, Maui, Hawaii
- St. Joseph Church, Structural Evaluation and Assessment of Structural Implications of Proposed Renovations, Kaupo, Maui, Hawaii
- Kaahumanu Congregational Church, Structural Evaluation, Wailuku, Maui, Hawaii
- Leinani Apartments, Structural Condition Assessment, Lahaina, Maui, Hawaii
- Kalaiahamanu Hou Church, Structural Evaluation, Kaunakakai, Molokai, Hawaii
- Old Paia Gym, Assessment and Remediation of Deteriorated Roof Structure and Columns, Paia, Maui, Hawaii
- Royal Kahana, Tennis Court, Assessment of Distressed Elevated Concrete Slab Structure, Kahana, Maui, Hawaii

#### Structural Plan Review Services

- Mr. Erickson provides structural plan review services for the City of Vancouver, Washington to ensure compliance with applicable structural building codes and completeness and accuracy of submitted structural calculations and plans. Required changes are identified and communicated to permit applicants.

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### MEMBERSHIPS

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- Structural Engineers Association of Oregon
  - Board of Directors, 2001-03
  - Program Committee Chair (2011 – 2012)
  - Vintage Building Committee Member (2008 – current)
  - Member of the Month, September 1998 and January 2004
- Structural Engineers Association of Hawaii
  - Disaster Response Committee
- American Society of Civil Engineers
  - Forensic Engineering Division Committee on Forensic Investigations
- American Institute of Steel Construction
- Earthquake Engineering Research Institute
- American Concrete Institute
- American Welding Society