



BC&E_{LLC}

Professional Qualifications

Kaitlin M. Kunze, P.E.

Associate

EDUCATION

Bachelors of Science, Civil Engineering, Valparaiso University, 2013

Masters of Science, Structural Engineering, University of Texas at Austin, 2014

PROFESSIONAL REGISTRATIONS AND MEMBERSHIPS

Registered Professional Engineer in Colorado, and Texas

Memberships: Structural Engineers Association of Colorado (SEAC)

PROFESSIONAL EXPERIENCE

2021 - Present: BC&E, LLC
Associate

2019 - 2021: Martin/Martin, Inc.
Lakewood, CO
Structural Engineer

2015 - 2019: Wiss, Janney, Elstner Associates, Inc.
Dallas, TX
Structural Engineer

Kaitlin Kunze has experience in a variety of practice areas in the structural engineering and construction industries including failure and damage investigations, structural condition assessments, structural analysis of steel, concrete, masonry and wood structures, nondestructive evaluation of structures, design of structural repairs and specifications, and construction administration. She has evaluated various types of structures including apartments, condos, parking structures, stadiums, pedestrian bridges, airports, schools, historic structures, and office buildings.

Ms. Kunze has expertise in failure and damage assessment. She has assessed pre-engineered metal building collapses, partial brick facade collapses, steel corrosion, foundation movement damage, glass damage, and severe concrete deterioration. She has created complex 2D and 3D computer models to aid in structural analysis of pre-engineered metal buildings, pedestrian bridges, and concrete slabs.

Ms. Kunze has performed condition assessments, designed structural and waterproofing repairs, and developed maintenance plans for parking garages across the country. She has experience with post-tensioned concrete, cast-in-place concrete, precast concrete, and steel parking structures. She has developed a special expertise in post-tensioned concrete structures and has performed analysis and load testing of distressed structures.

Ms. Kunze is knowledgeable in nondestructive evaluation techniques; use of ground penetrating radar to determine presence, depth, and location of mild and post-tensioned reinforcement; use of impact-echo to determine concrete thicknesses and identify delaminations; use of ultrasonic thickness gauges to determine steel thickness and section loss; use of 3D laser scanners to aid in development of as-built documents, floor slope contours, and point cloud representation of existing structures.

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