



## Evan Gerbo, Ph.D., P.E.

Project Manager ·

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### Professional Profile

Dr. Gerbo is a licensed civil engineer in Colorado with 6 years of experience in the design and construction industry. Dr. Gerbo has a diverse background in Civil and Architectural Engineering as those disciplines apply to buildings and infrastructure.

Dr. Gerbo has hands-on construction experience in the construction trades, including framing, excavation, concrete, and steel erection. As an engineer, he has experience in the repair design of damaged structures, strengthening of existing buildings, and construction engineering fields. Dr. Gerbo has designed repairs to address concrete distress, performed condition assessments of parking garages, and has personally observed dozens of concrete pours in the field. Dr. Gerbo's experience in the construction engineering field involves extensive design of formwork and falsework, evaluation of permanent structures for temporary loading (e.g. crane surcharge loading, wind loading on partially erect structures), bracing of precast structures during erection, demolition, accelerated bridge construction and onsite safety administration on OSHA governed construction sites.

Dr. Gerbo has investigated structural and architectural damage induced by expansive soils, water intrusion, fires, construction defects, and vehicular impact. He has investigated many buildings exhibiting foundation movement, a common issue for structures built in Colorado. Dr. Gerbo has experience in the strengthening of open web steel joist roof systems, evaluation and repair of wood and concrete deterioration in both conventionally reinforced and prestressed concrete structures, investigation of heaving/subsidence of residential and commercial properties, rehabilitation of historic steel and masonry structures, investigation of façade distress on high rise commercial buildings, inspection of steel and concrete bridges, and load testing. Dr. Gerbo's recent experience also includes evaluation of building facades, cladding and waterproofing systems, along with

### Academic Credentials & Professional Honors

Ph.D., Civil Engineering, University of Notre Dame, Notre Dame, IN, 2020

Othmar H. Ammann Research Fellow, 2018

M.S. Architecture, California Polytechnic State University, San Luis Obispo, CA 2014

B.S. Architectural Engineering, California Polytechnic State University, San Luis Obispo, CA 2014

## Licenses and Certifications

Professional Engineer Civil, Colorado, #0061420

Commercial Drone Pilot (FAA Part 107), #4738528

OSHA 10-Hour Construction Safety Training

## Prior Experience

Associate II, Wiss, Janney, Elstner & Associates, 2022-2024

Engineer II, Kiewit Engineering Group, 2019-2022

Graduate Student, University of Notre Dame, 2014-2019

Estimating Intern, American Buildings Company, Summer 2013

Structural Design Intern, D&Z Structural Engineering, Summer 2012

## Professional Affiliations

American Society of Civil Engineers—ASCE

Structural Engineers Association of Colorado—SEAC

## Peer Reviewed Publications

Gerbo, EJ, Thrall, AP, and Zoli, TP (2020) "Service and Ultimate Behavior of Adjustable Bolted Steel Plate Connections." *Journal of Structural Engineering*, 146(7), 04020128, 11 pp.

Gerbo, EJ, Thrall, AP, and Zoli, TP (2020) "Adjustable Bolted Steel Plate Connection: Measured Behavior of Bolts during Field Installation and Numerical Parametric Investigation." *Journal of Structural Engineering*, 146(2), 04019189, 16 pp.

Gerbo, EJ, Wang, Y, Tumbava, MD, Thrall, AP, Smith, BJ, and Zoli, TP (2018) "Behavior of an Adjustable Bolted Steel Plate Connection during Field Installation," *Journal of Structural Engineering*, 144(3), 04017223, 14 pp.

Gerbo, EJ, Thrall, AP, Smith, BJ, and Zoli, TP (2016) "Full-Field Measurement of Residual Strains in Cold Bent Steel Plates." *Journal of Constructional Steel Research*, 127: 187-203.

Gerbo, EJ, Casias, CM, Thrall, AP, and Zoli, TP (2016) "New Bridge Forms Composed of Modular Bridge Panels." *Journal of Bridge Engineering*, 21(4): 04015084, 12 pp.

Ballard, ZC, Gerbo, EJ, Thrall, AP, Smith, BJ (2016) "Behavior of Sandwich Panels in a Deployable Structure." *Journal of Structural Engineering*, 142(10): 04016073, 14 pp.

## Patents

Thrall, A. P., Gerbo, E. J., & Zoli III, T. P. (2019). Adjustable bolted steel plate connection (U.S. Patent No. 10,370,805). Washington, DC: U.S. Patent and Trademark Office.

## Presentations

Gerbo, E., Bennett P. Fundamentals of Shallow Foundation Repair. HalfMoon Education, December 15, 2025.

Gerbo, E., Bennett P. Fundamentals of Shallow Foundation Construction. HalfMoon Education, December 15, 2025.

Gerbo, E., Bennett P. Fundamentals of Shallow Foundation Design. HalfMoon Education, December 15, 2025.

Gerbo, E., Bennett P. Designing and Constructing Reinforced Concrete Retaining Walls. HalfMoon Education, October 7, 2024.

Gerbo, E., Bennett P. Designing in Accordance with ACI 318-19(22): Building Code Requirements for Structural Concrete. HalfMoon Education, October 7, 2024.

## Conference Presentations

Gerbo, EJ, Thrall, AP, and Zoli, TP (2016) "Analysis and Design of a Steel Connection for Alternative Configurations of Rapidly Erectable Bridge Modules," Geotechnical and Structural Engineering Congress, Phoenix, AZ, Abstract and Presentation.

Gerbo, EJ, Casias, CM, Thrall, AP, and Zoli, TP (2015) "Shape Optimization of a Bowstring Truss," Engineering Mechanics Institute Conference, Stanford, CA, Abstract and Presentation.

Gerbo, EJ, and Saliklis, EP (2014) "Optimizing a Trussed Frame Subjected to Wind Using Rhino, Grasshopper, Karamba and Galapagos," International Association of Shell and Spatial Structures Symposium, Brazilia, Brazil, Paper (7 pp) and Presentation.

Gerbo, EJ, and Norton, R (2013) "A Building of Many Perceptions: Poly-Perceptio," Earthquake Engineering Research Institute Seismic Design Competition, Seattle, WA, Poster and Presentation.