

WILLIAM SEITES-RUNDLETT, Ph.D., E.I.T.

EDUCATION:

B.Sc. Civil Engineering, University of Rhode Island, Kingston, RI, 2012
Ph.D. Civil Systems Engineering, University of Colorado, Boulder, CO, 2022



EXPERIENCE:

Project Engineer, Knott Laboratory, LLC, Centennial, Colorado, June 2023 to Present
Doctoral Research Assistant, University of Colorado, Boulder, Colorado, January 2019 through August 2022
Teaching Assistant, University of Colorado, Boulder, Colorado, August 2020 through June 2021
Disaster Risk Reduction Intern, International Federation of Red Cross and Red Crescent, Philippines, Summer 2019
Graduate Research Assistant, University of Colorado, Boulder, Colorado, January 2018 through December 2018
Structural Engineer, General Dynamic Electric Boat, Groton, Connecticut, June 2012 through February 2016
Project Management Intern, Streif Baulegistik, Germany, March 2011 through August 2011
Undergraduate Research Assistant, Institut für Grundbau und Bodenmechanik, TU-Braunschweig, Germany, October 2010 through March 2011
Construction Intern, Rhode Island Department of Transportation, Rhode Island, May 2009 through August 2010

ENGINEERING AND DESIGN:

Mr. Seites-Rundlett has a diverse background in civil engineering including construction management, structural design, and research on water systems, transportation systems, and disaster management. Mr. Seites-Rundlett has experience domestic and abroad, both practicing as a civil engineer and performing research.

Mr. Seites-Rundlett has extensive experience with the analysis and design of steel structures in shipbuilding applications. This experience includes the design of hull structures, cofferdams, and miscellaneous foundations. The analysis of steel structures often required the use of finite element methods and supercomputing networks. Analysis covered new design, maintenance of existing structures, development of maintenance plans, and lifting and handling. Mr. Seites-Rundlett also has extensive experience in the analysis of steel connections, including fastener and weld design. This experience also includes concepts of lean manufacturing, design for production, and geometric dimensioning and tolerancing.

Mr. Seites-Rundlett obtained his doctorate in Civil Systems Engineering because of his experience working across multiple disciplines of engineering. Research topics have included the long-term performance of dikes, developing an update to drinking water guidelines for the World Health Organization, risk and uncertainty, statistical methods, and evacuation models. This research culminated in the dissertation, "Incorporating Uncertainty and Social Influences into Transportation System Decision Making." This research analyzed the uncertainty inherent in social data to better understand evacuation outcomes and develop methods of improving evacuation models.

Additional experiences during graduate school include spending a summer working for the Red Cross in the Philippines. Mr. Seites-Rundlett performed an organizational evaluation of the Philippine Red Cross, working closely with management to improve the performance of the organization. Mr. Seites-Rundlett also performed field investigations of shelters constructed by the Red Cross. This experience also included ATC-20 training on post-disaster building evaluation. During graduate school, Mr. Seites-Rundlett also taught review courses for students preparing for the Fundamentals of Engineering Exam, including structural design and analysis. Mr. Seites-Rundlett was also a teaching assistant for senior design, assisting students through the design and development of construction documents for their senior projects.