

# TIMOTHY MALONEY, M.S., P.E.



## EDUCATION:

B.S. Civil and Environmental Engineering, West Virginia University, Morgantown, WV, May 2011  
M.S. Civil Engineering, (Structural), Colorado State University, Fort Collins, CO, December 2017

## REGISTRATIONS:

Mr. Maloney is a Registered Professional Engineer in CO, NE, KS, WY, MT, ID, UT, SD, OK, TX, AZ, FL, AL, GA, AK, NC, SC, LA, MS, AR  
NCEES Record Holder # 12-558-15

## EXPERIENCE:

Project Engineer, Knott Laboratory, LLC, Fort Collins, Colorado, September 2021 – present; Forensic Engineer, Donan Engineering, Fort Collins, Colorado, April 2020-September 2021; Project Engineer, CTL Thompson, Inc., Fort Collins, CO, September 2017-March 2020; Graduate Research Assistant, Colorado State University, Fort Collins, CO, September 2015-September 2017; Civil Engineer, D'Appolonia Engineering, Monroeville, PA, September 2011-August 2015

## FORENSIC ENGINEERING:

Mr. Maloney has investigated cases involving property damage from fire, moisture intrusion, condensation, inadequate ventilation and drainage, age-related deterioration, hail, wind, mold, soil expansion, foundation failure, structural member failure, vehicular collisions, tree impacts, construction defects, deferred maintenance, and mechanical damage. Mr. Maloney's experience with design and construction from conceptual stage to project completion in the residential, commercial, and industrial sectors, has given him an understanding of the design/construction process, relevant standards of care, and building code requirements, enabling him to accurately identify origins of structural failures. At Knott Laboratory, Mr. Maloney conducts structural evaluations and failure analysis on residential and commercial structures, building envelopes, and finish materials and provides repair recommendations and plans for a variety of projects.

## ENGINEERING AND DESIGN:

Mr. Maloney has performed design and plan preparation for a variety of projects in the residential, commercial, and industrial sectors using a wide array of structural materials including wood, structural steel, cold-formed steel, reinforced concrete, and masonry. Mr. Maloney has also overseen and monitored the construction of large commercial and industrial civil and structural engineering projects.

### Example Projects:

Managed design work, billing, and communication for large residential construction client with multiple subdivisions in northern Colorado.

Performed design work, prepared bid documents and design estimates, and provided construction oversight for gold mine process facilities near Elko, NV and in Canada.

Performed design for pre-engineered metal building foundations in northern Colorado.

Modeled residential building performance under tornado loads as part of funded CSU research team.

Monitored construction and supported operations for coal refuse impoundment dams in western Pennsylvania.

Modeled refuse dam breaches and prepared Emergency Action Plans for refuse dams.

Performed design, installation, programming, and technical support for the Automated Data Acquisition System for inclinometers installed to monitor earth movement during major repairs to the U.S. Army Corps of Engineers East Branch Dam in Wilcox, PA.

## PUBLICATIONS:

Primary Author	Performance and Risk to Light-Framed Wood Residential Buildings Subjected to Tornadoes	-Structural Safety, January 2018
Contributing Author	De-Aggregation of Community Resilience Goals to Obtain Minimum Performance Objectives for Buildings Under Tornado Hazard	-Structural Safety, January 2018

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