



Curriculum Vitae

James R. Panko, P.E.
Structural/Civil Engineer

Professional Practice

James Panko is an accomplished Civil/Structural Engineer with more than 13 years of Civil/Structural design and forensic engineering experience in the industry. Mr. Panko provides expert consultation in the areas relating to building and site design, structural and building envelope failure analysis for various building types, and premise liability. Mr. Panko has performed building evaluations on structures affected by moisture intrusion, high wind events, snow loading, fire, blast loading, vehicle impact and vibration induced loads to determine the extent of damage and provide root cause determination of failure. Mr. Panko has experience in the design and construction practices relating to the exterior environment around buildings. He performs forensic investigations relating to site drainage, grading, ADA compliance and trip and fall hazard assessments. Mr. Panko has extensive experience as Engineer-of-Record for projects from all sectors of the built environment including the Department of Defense, Department of Corrections, healthcare, higher education, industrial, agricultural, mixed use retail, and residential.

Employment History

Consulting Structural Engineer – Crane Engineering Building Science, LLC and Crane Engineering

Plymouth, MN • 2013 – Present

Provides assessments and evaluations regarding physical conditions as a result of architectural, structural or planning decisions regarding a particular incident or outcome. Provides code compliance evaluation for structures and environments. Performs field assessments of structures, environments and construction practices. Investigates water leakage, condensation, air leakage/infiltration, and other problems related to roofs, exterior walls, window assemblies, curtain walls and waterproofing. He is part of Crane Engineering's DART (Difficult Access Response Team) and is able to apply his expertise using Ropes Access techniques and work in confined spaces, giving clients the ability to have inspections performed in nearly any location. Serves as expert witness to present professional opinion and results.

Principal Investigative Engineer – Investigative Engineers of Southern Minnesota, A Division of Paulsen Architects

Mankato, MN • 2011 – 2013

Responsibilities included investigating structural defects, construction defects and storm damage. Provided expert witness services. Provided detailed reports and analyses on investigations.

Director of Structural/Civil/Investigative Engineering – Paulsen Architects

Mankato, MN • 2004 – 2013

Responsibilities included developing the Civil/Structural engineering department for architectural firm. Oversaw design of all structural and civil components. Reviewed plans for compliance with various state and city codes. Analyzed and designed structural systems for steel, concrete, wood, and masonry. Proficient in seismic design and detailing requirements for SDC D, E, F.

Engineer Technician/Survey Crew Chief – Pac West Engineering

Albany, OR • 2001 – 2002

Lead survey crew to provide construction staking services and property boundary surveys. Provided calculations for slope staking and storm runoff data.

Professional Licenses

Registered Professional Engineer –

Minnesota, Iowa, Florida, South Dakota, North Dakota, Wisconsin, and Colorado (Inactive)

Professional Affiliations and Honors

Recipient of the American Society of Civil Engineers – Minnesota Young Engineer of the Year Award, 2012.

Presenter of “Effective Management of Investigative Engineering Firm” IENGA Annual Conference Fort Lauderdale, FL, 2012.

Advisor in the publication of Moaveni, Saeed, *Engineering Fundamentals: An Introduction to Engineering*, 2011.

American Society of Civil Engineers (ASCE) – Member

Minnesota Society of Professional Engineers (MSPE) – Member

National Roofing Contractors Association (NRCA) – Member

National Society of Professional Engineers (NSPE) – Member



Property & Liability Resource Bureau (PLRB) – Affiliate Advisory Board Member
Structural Building Component Association (SBCA) – Member
Northwest Loss Association, Inc. – Member

Education

Bachelor of Science in Civil Engineering, Minnesota State University, Mankato, MN, 2004

Continuing Studies

Roof Technology & Science I – RCI, Inc., Columbus, OH, 2017

Roof Technology & Science II – RCI, Inc., Columbus, OH, 2017

Exterior Walls Technology & Science – RCI, Inc., Durham, NC, 2016

Masonry Wall Systems – RCI, Inc., Phoenix, AZ, 2016

Completion of 64 hours of Investigative Engineering Training, I-ENG, Fort Lauderdale, FL, 2011 and 2012

Graduate of the Greater Mankato Growth Leadership Program, Mankato, MN, 2010

Participant in annual continuing education classes offered by the University of Minnesota, Minneapolis, MN

Presentations and Publications

“Foundation Engineering Design and Coverage Issues”, PLRB Large Loss Conference, Orlando, FL, 2018.

“Slips, Trips and Falls”, Crane Smart Sessions, Crane Engineering, Plymouth, MN, 2018.

“From Uptown to Downtown: Issues Regarding Mixed-Use Multi-Level Construction”, Crane Smart Sessions, Crane Engineering, Plymouth, MN, 2018.

“Effective Ways to Involve Experts in Your Legal Strategy”, South Dakota Defense Lawyers Association Annual Meeting, Sioux Falls, SD, 2017.

“The Future has Arrived: New Construction Methods and Materials That Are Changing the Industry”, Fox Valley Adjusters Association, Appleton, WI, 2017.

“Building Condition Assessment – Knowing the Hazards of a Hazard”, Bureau of Alcohol, Tobacco, Firearms and Explosives – National Response Team Training, Redstone Arsenal, Huntsville, AL, Instructor, 2017.

“Building Condition Assessment – A Safety Course in the Effects of Fire and Explosions on Buildings”, Bureau of Alcohol, Tobacco, Firearms and Explosives – National Response Team, Huntsville, AL, Instructor, 2016.



“Incident Site Management – Managing and Documenting an Incident Scene”, ASCE Forensic Engineering 7th Congress, Miami, FL, 2015.

“Bracing for Failure: A Case Study of Wood Truss Failures and the Responsibility of the Designers, Manufacturers, and Installers”, North Dakota Defense Lawyers Association (NDDLA) – 2015 Annual Meeting and Seminar, Bismarck, ND, 2015.

“Standard of Care for Engineers and Architects”, Minnesota State University, Mankato, MN, 2014, 2015, 2016.

“What is Forensic Engineering”, Minnesota State University, Mankato, MN, 2013, 2014, 2015, 2016.

S.A. Nesvold, J.R. Panko, Incident Site Management – Managing and Documenting an Incident Scene. Proceedings of the 7th Congress and Forensic Engineering, American Society of Civil Engineers, Reston, VA, pp. 589-599, 2015.

