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Plymouth, MN 55447

JAMES R. PANKO, P.E.
PRINCIPAL

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James Panko is a Principal for ESi. Mr. Panko is an accomplished Civil/Structural Engineer with more than 20 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.

Areas of Specialization

Building Envelope Failure Analysis
Construction Engineering
Engineering Analysis
Engineering Surveying
Damage Assessment
Failure Analysis
Historic Buildings/Rehabilitating
Structural Analysis
Repair and Renovation Design
Rope Access
Trip and Fall Hazard Assessments

Education

B.S. Civil Engineering, Minnesota State University, Mankato, MN, 2004

Licenses/Certifications

State of Florida P.E. License 84084
State of Iowa..... P.E. License 19785
State of Minnesota..... P.E. License 46715
State of North Dakota P.E. License PE-10659
State of South Dakota P.E. License 12816
State of Wisconsin P.E. License 44287-6

Professional Affiliations/Honors

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

Presenter of “Effective Management of Investigative Engineering Firm”

IENGA Annual Conference Fort Lauderdale, Florida, 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

Positions Held

Engineering Systems Inc., Plymouth, Minnesota

Principal, 2023 – Present

Senior Managing Consultant, 2019 – 2022

Crane Engineering Building Science, LLC and Crane Engineering, Plymouth, Minnesota

Consulting Structural Engineer, 2013 – 2018

Investigative Engineers of Southern Minnesota, A Division of Paulsen Architects, Mankato, Minnesota

Principal Investigative Engineer, 2011 – 2013

Paulsen Architects, Mankato, Minnesota

Director of Structural/Civil/Investigative Engineering, 2004 – 2013

Pac West Engineering, Albany, Oregon

Engineer Technician/Survey Crew Chief, 2001 – 2002

Publications/Presentations

“Evaluating Cosmetic and Functional Hail Damage”, **J.R. Panko**, presented at the League of Minnesota Cities Seminar, St. Paul, MN, 2023

“Expert Testimony: Collaborating with Experts to Educate the Jury”, **J.R. Panko**, presented at the Wisconsin Defense Counsel Annual Conference, Wisconsin Dells, WI, August 2022

“Evaluation of Code Upgrades for Repairs, Alterations and Additions to Existing Buildings”, **J.R. Panko**, webinar presenter for the Conference for Catholic Facility Management (CCFM), Webinar, 2020

“What Happens When You Ignore the Plumbing and Mechanical Codes”, **J.R. Panko**, presented at the ICC Region III Conference, Chaska, MN, February 2020

“From Uptown to Downtown: Issues Regarding Mixed-Use Multi-Level Construction”, **J.R. Panko**, presented at the North Dakota Defense Lawyers Association (NDDLA) – 2018 Annual Meeting and Seminar, Bismarck, ND, 2018

“Foundation Engineering Design and Coverage Issues”, **J.R. Panko**, presented at the PLRB Large Loss Conference, Orlando, FL, 2018

“Slips, Trips and Falls”, **J.R. Panko**, presented at the Crane Smart Sessions, Crane Engineering, Plymouth, MN, 2018

“From Uptown to Downtown: Issues Regarding Mixed-Use Multi-Level Construction”, **J.R. Panko**, presented at the Crane Smart Sessions, Crane Engineering, Plymouth, MN, 2018

“Effective Ways to Involve Experts in Your Legal Strategy”, **J.R. Panko**, presented at the 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”, **J.R. Panko**, presented at the Fox Valley Adjusters Association, Appleton, WI, 2017

“Building Condition Assessment – Knowing the Hazards of a Hazard”, **J.R. Panko**, presented at the 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”, **J.R. Panko**, presented at the Bureau of Alcohol, Tobacco, Firearms and Explosives – National Response Team, Huntsville, AL, Instructor, 2016

“Incident Site Management – Managing and Documenting an Incident Scene”, **J.R. Panko**, presented at the 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”, **J.R. Panko**, presented at the North Dakota Defense Lawyers Association (NDDLA) – 2015 Annual Meeting and Seminar, Bismarck, ND, 2015

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

“Standard of Care for Engineers and Architects”, **J.R. Panko**, presented at Minnesota State University, Mankato, MN, 2014, 2015, 2016

“What is Forensic Engineering”, **J.R. Panko**, presented at Minnesota State University, Mankato, MN, 2013, 2014, 2015, 2016