Mark G. Nordstrom

PE

Senior Consultant

Mr. Nordstrom is a civil engineer with over 30 years of combined experience in engineering design, loss investigation, and expert testimony. He has over 20 years of experience specific to loss investigation related to municipal infrastructure, structures, soil mechanics and foundations, structural vibration damage, stormwater management, sewer and water systems, onsite sewer treatment systems, roadway and pavement design and construction, construction management/supervision, personal injury, bicycle accidents, and other disciplines traditionally associated with civil engineering.

Mr. Nordstrom has extensive experience with personal injury investigations in matters involving ADA/accessibility, building codes, and municipal codes related to stairways, ramps, walkways, handrails/guardrails, illumination, slip resistivity/condition of walkway surfaces, and site design.

Mr. Nordstrom is a lifelong cyclist and has experience investigating bicycle accidents with regards to pavement conditions, storm grate designs, speed control devices, signage, bicycle facility design standards, and interactions with motor vehicles.

Before and coinciding with his experience in engineering loss investigation, Mr. Nordstrom co-founded one of the first companies in the United States to offer highly accurate broadcast quality illustrative media to the loss investigation and legal industries. During its fifteen years in operation, RaptorGraphics, LLC innovated illustrative media ranging from simple graphic diagrams to fully interactive three-dimensional virtual environments, offering it's services to legal professionals and testifying experts on matters totaling well over half a billion dollars in losses and damages.

By way of his work with digital media, Mr. Nordstrom has extensive experience in photo and video analysis. He has provided services including photo dimensional analysis, event analysis (time/location/velocity relationships, event timelines), analysis of aerial and satellite imagery, and the investigation of changes to site conditions over time.

Contact Information

mgnordstrom@engsys.com

(206) 957-2144

ESi Seattle

700 S Industrial Way
Seattle, WA 98108

Areas of Specialization

- Sewage and Stormwater Systems
- Site Drainage Design
- Structural Damage
- Design and Construction Defects
- Structural Water Intrusion
- Foundations and Retaining Walls
- Slope Stability
- Structural Vibration Damage
- Personal Injuries
- Floor Slip Resistivity
- Accessible Design Analysis
- Bicycle Accidents
- Environmental Illumination Analysis
- Concrete and Pavement Defects
- Photo and Video Analysis

Mr. Nordstrom's early career experience includes computer-based civil design and planning for residential, commercial, and municipal projects, as well as design, analysis, and structural detailing of residential and light commercial structures in areas of high snow, wind, and seismic loading conditions.

Education

B.S., Civil and Environmental Engineering, University of Wisconsin Madison, 1984

Milwaukee School of Engineering, Mechanical Engineering, 1979–1980

Licenses & Certifications

- Registered Professional Civil Engineer, State of Washington, #30958
- Registered Professional Civil Engineer, State of California, #C49491

Languages

- English

Positions Held

Engineering Systems Inc., Seattle, Washington

- Senior Consultant, 2024 – Present
- Senior Staff Consultant, 2016 – 2023

MDE, Inc., Seattle, WA

- Vice President & Principal, 2009 – 2016
- Associate Forensic Engineer, 2003 – 2009

Pacific Interactive, Seattle, WA

- Lead 3D Digital Designer, "Bill Nye- Stop the Rock" interactive computer game (1995)

Raptor Graphics, LLC, Tahoe City, CA and Seattle, WA

- President, Co-Founder, 1992 – 2009

Nordstrom Design, Tahoe City, CA

- Associate Forensic Engineer, 2003 – 2009
- Principal/Owner, Civil Design Engineer, 1991 – 1993

Hale-Tippin Consultants, Tahoe City, CA

- Civil Designer/Project Manager, 1990 – 1991

Opitz Engineers, Kremmling, CO

- Civil Designer, Field Technician, Draftsperson, 1986 – 1989

Continuing Education

- **Excel Tribometer training and certification** – 2017
- **American Society of Civil Engineers (ASCE), “Soil and Rock Stability” Seminar** – 2017
- **ASCE, "Earth Retaining Structures-Fill Walls" Seminar, September** – 2012
- **Excel Tribometer training and certification** – 2012
- **ASCE, "Investigation and Repair of Fire-Damaged Framing" Seminar** – 2011
- **“Soil Mechanics and Engineering for Building Professionals” Seminar** – 2011
- **The University of Washington sponsored "Cold Regions Engineering" Five-Day Seminar** – 2010
- **"ATC-20 Post-Earthquake Safety Evaluation of Buildings" Seminar** – 2010
- **Portland Cement Association, "Troubleshooting Concrete Floors" Seminar** – 2008