Steven J. Roensch <u>Curriculum Vitae</u>

Current as of April 5, 2024

Executive Summary

- Robust background in Engineering Mechanics, Physics and Mathematics
- 42 years of professional experience analyzing product designs and failures
- Expert Witness on 77 cases
- Testified 23 times
- Defendant and Plaintiff investigations
- Product Liability and Personal Injury
- Engineering Consultant on 100's of mechanical designs
- 1000's of engineering analyses
- M.S. in Engineering Mechanics
- B.S. in Applied Mathematics, Engineering and Physics with Honors
- Taught at:
 - University of Wisconsin-Madison
 - Marquette University
 - IBM Research & Development
 - Client locations
- Hands-on engineer
- Maintenance and repairs on own vehicles, boats and aircraft

Steven J. Roensch Curriculum Vitae (continued)

Current as of April 5, 2024

Work Experience

- Roensch & Associates 1988-present Fox Crossing, Wisconsin previously Grafton, Wisconsin
 - President
 - Expert witness and litigation technical support in the following industries:
 - ✓ Energy
 - ✓ Construction
 - ✓ Industrial
 - ✓ Agricultural
 - ✓ Medical
 - ✓ Transportation
 - ✓ Marine
 - ✓ Utility
 - ✓ Commercial
 - ✓ Residential
 - Failure analysis consulting
 - Patent infringement technical support
 - Finite element analysis consulting
 - Marketing and support of finite element software and computer hardware
- IBM Corporation •
- 1982-1991
- Milwaukee, Wisconsin
 - Systems Engineer - Finite element analysis consulting
 - Marketing and support of finite element software and computer hardware

Rochester, Minnesota

- Design Engineer - Disk drive research & development - Nonlinear queuing theory analysis
- University of Wisconsin 1981-1982
- Madison, Wisconsin
 - Undergraduate Course Instructor

Professional Societies

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ASME – American Society of Mechanical Engineers

Steven J. Roensch Curriculum Vitae (continued)

Current as of April 5, 2024

Education

Master of Science in Engineering Mechanics

May 1982, University of Wisconsin–Madison

Specialized in elasticity and stress analysis

Bachelor of Science in Applied Mathematics, Engineering and Physics with Honors

May 1981, University of Wisconsin–Madison

Phi Beta Kappa, Phi Kappa Phi, Phi Eta Sigma, Graduated with Distinction, Trewartha Honors Undergraduate Research Fund Grant, 1981 Radtke Scholarship— University of Wisconsin Physics Department's Outstanding Senior, James F. Lincoln Foundation 1981 Engineering Award

Publications

- Consulting Project Reports Hundreds of confidential reports detailing the analysis of the clients' products, with recommendations for any necessary changes, 1988–present
- *The Finite Element Method: A Four-Article Series* Written for American Society of Mechanical Engineers, published in ASME newsletter, 1996
- College Thesis Bicubic Spline Interpolation and Application to Two-Dimensional Stress Analysis, 1981

Teaching Experience

- Marquette University Guest lecturer on engineering expert witnesses
- FEA Classes Taught *Finite Element Analysis* theory and practice classes to many customers, including J.I. Case/International Harvester, Johnson Controls, Oshkosh Truck Corporation, Giddings & Lewis, 1988–1996
- IBM Research & Development Taught *Variational Methods* graduate-level mathematics class, focusing on the foundation of the finite element method, 1986
- University of Wisconsin–Madison Taught Statics and Strength of Materials engineering classes, 1981–1982

Steven J. Roensch Litigation Experience

Current as of April 5, 2024

Professional Experience: 42 years

Expert Witness Experience: 29 years

Total Testimony: 23

- Deposition: 18
- Courtroom: 4 Arbitration: 1

Patent Cases: 8

Total Cases: 77

	<u>Date</u>	<u>Industry</u>	Description	<u>Deposition</u>	Courtroom/ Arbitration
1.	1995- 1997	Utility	Rakes v. Simon-RO – Utility Truck Boom Failure	Yes	Yes
2.	1997	Utility	Electrical Insulator Lifter Failure		
3.	1998	Industrial	Toyota Material Handling U.S.A. – Forklift Fatality		
4.	1998	Energy	TU Electric v. F & E Erection – Electric Plant Vessel Failure		
5.	1998	Construction	Simon-Access – Boom Descent Time		
6.	1998	Industrial	Lattimore – Conveyor Lift Accident		
7.	1999	Industrial	Bolin – Forklift/Shipping Container Accident		
8.	1999	Transportation	Fire Truck Accident		
9.	1999	Commercial	Haynes and Giffin v. Bush Hog – Mower Blade Failure		
10.	1997- 1999	Construction	Racine Federated v. Homelite – Concrete Vibrator Engine Failures	Yes	Yes
11.	2000- 2002	Energy	Fidelity & Deposit of Md. v. KFX – Coal Processing Plant Fire	Yes	Yes
12.	1999- 2003	Energy	Lankford v. Energy Industries – Natural Gas Plant Explosion	Yes	

	<u>Date</u>	Industry	Description	<u>Deposition</u>	Courtroom/ Arbitration
13.	2004	Industrial	Chain Link Weld Flaw Failure		
14.	2004	Industrial	Toyota Material Handling U.S.A. – Forklift Accident		
15.	2004	Energy	Bridges v. Hydra Rig – Oil Field Equipment Failure		
16.	2005	Industrial	Valero Refinery – Valve Pipe Failure		
17.	2004- 2006	Energy	Jackson v. Phillips – Coal Mining Shuttle Car Canopy Leg Failure		
18.	2005- 2006	Residential	Grasso v. Cuno Inc. – Filtration System Polymeric Line Failure		
19.	2007	Industrial	Electric Motor Cooling Fin Failure		
20.	2006- 2007	Construction	Flippin v. Crocker Crane – Derrick Boom Failure		
21.	2006- 2007	Construction	Obayashi Corporation – Hoover Dam Cableway Tower Collapse		
22.	2007	Commercial	Brunner v. US Chemical – Dispenser Chemical Spill		
23.	2007- 2008	Transportation	Cabell v. Great West Casualty – Flatbed Truck Accident		
24.	2008	Industrial	Robinson v. United Rentals – Forklift Battery Accident		

	<u>Date</u>	<u>Industry</u>	Description	<u>Deposition</u>	Courtroom/ Arbitration
25.	2008- 2009	Transportation	Arbella Insurance et al v. Snap-on Inc. – Motorcycle Lift Failure		
26.	2008- 2009	Energy	McDaniel v. Smith International – Oil Field Equipment Failure	Yes	
27.	2009	Construction	Enerson v. Volvo Construction Equipment – Excavator Cab Window Support Failure		
28.	2009	Residential	Natural Gas Pipe Joint Failure		
29.	2009	Industrial	Oglebay-Norton / Foseco – Steel Hot-Top Refractory Asbestos		
30.	2009- 2010	Transportation	McNicoll v. Northern Tool – Trailer Wheel Rim Failure	Yes	
31.	2010	Energy	Oil Pipeline Stepped Weld Joint		
32.	2010	Industrial	Excel Machinery Conveyor Joint		
33.	2007- 2010	Medical	Sonntag v. Teleflex Inc. dba Pilling – Surgical Tool Failure		
34.	2010	Industrial	Gas Rupture Disc Failure		
35.	2011	Transportation	Bell Helicopter v. Eurocopter – Patent Infringement – Helicopter Landing Gear Assembly		
36.	2011	Construction	Superior Grouting – Water Pipe Buckling Analysis		

	Date	<u>Industry</u>	Description	<u>Deposition</u>	Courtroom/ <u>Arbitration</u>
37.	2010- 2011	Transportation	Tezanos v. Boss Hoss Cycles – Motorcycle Component Failure	Yes	
38.	2010- 2011	Residential	Custom Metals v. Motion Industries – Custom Gate Bearing Failure	Yes	Yes
39.	2011	Transportation	Webb v. Tyson, et al. – Rear Impact Underride Guard		
40.	2011	Energy	Oil Well Drillpipe Failure Dynamic Analysis		
41.	2011	Residential	Gas Explosion Dwelling Analysis		
42.	2012	Marine	River Barge Pelican Hook Failure Analysis		
43.	2012	Industrial	Hernandez v. Freeport Welding – Quench Chamber Tip-over Analysis		
44.	2012	Energy	Aries Well v. Hanover Insurance – Oil Well Workover Rig Collapse	Yes	
45.	2012- 2013	Commercial	Shopping Mall Escalator Combplate Analysis		
46.	2013	Industrial	Harkins v. OWT Industries – Generator Wheel Rim Failure	Yes	
47.	2013	Commercial	Deere v. Duroc et al. – Mower Deck Patent Infringement		
48.	2013- 2014	Transportation	Locomotive Radio Compartment Load Analysis		

	<u>Date</u>	Industry	Description	<u>Deposition</u>	Courtroom/ Arbitration
49.	2013- 2014	Construction	Star Alpha Corp. v. Mack Canada – Dump Truck Suspension Failures		
50.	2013- 2014	Transportation	McDonald v. Toyota – SUV Drive Shaft Failure	Yes x 2	
51.	2014	Commercial	Vehicle Material Spreader – Patent Infringement – Vibrational Dynamics Testing		
52.	2014	Transportation	Turner v. Dutchmen – Travel Trailer Frame Failure		
53.	2014	Commercial	Hoffman v. Dorel dba Cosco – Hand Truck Wheel Rim Failure	Yes	
54.	2014	Energy	Enterprise Crude Oil v. Jensen – Oil Tank Mixer Hinge/Valve Failure		
55.	2014- 2015	Industrial	Rockydale Quarries v. Vulcan Aggregates – Rock Crusher Failure		
56.	2015	Commercial	Elliott v. Tractor Supply Company – Split Rim Wheel Failure	Yes	
57.	2015- 2016	Commercial	Evans v. Stihl Inc. – Chain Saw Fuel Tank Geysering – Patent Related		
58.	2015- 2017	Commercial	Chair Gas Spring Failure – Patent Related		
59.	2016- 2017	Energy	Chesapeake v. WDI Manufacturing, LLC – Oil Field Equipment Failure		
60.	2017	Construction	Kennedy Concrete v. Garden State Engine, et al. – Truck Trolley Boom Failure		

	<u>Date</u>	Industry	Description	<u>Deposition</u>	Courtroom/ Arbitration
61.	2017	Energy	Oilfield Salt Water Disposal Well Pipe Victaulic Coupling Failure		
62.	2018	Commercial	Impact Analysis due to Overhead Light Support Failure		
63.	2018	Energy	Oilfield Casing Coupling Failure		
64.	2016- 2018	Transportation	All-Terrain Vehicle (ATV) Design – Patent Infringement		
65.	2018- 2019	Construction	Step Ladder Injury		
66.	2018- 2019	Commercial	Walz v. Doug's Midwest Aerial Service LLC – Aerial Lift Failure		
67.	2019	Residential	Pawlik v. Alco Manufacturing Co., et al. – Ratchet Strap Failure		
68.	2019- 2020	Industrial	Brush Cutter Design – Patent Infringement		
69.	2019- 2022	Residential	Climbing Stick Failure	Yes	
70.	2019- 2022	Commercial	Heat Exchanger Failure	Yes	
71.	2022- 2024	Industrial	Allied v. Smash My Trash – Roll-off Waste Containers	Yes	Yes
72.	2022	Agricultural	Tractor Loader Accident		

	<u>Date</u>	Industry	Description	Deposition	Courtroom/ Arbitration
73.	2022	Commercial	Restaurant Fire		
74.	2023- 2024	Transportation	Recreational Off-Highway Vehicle (ROV) / Utility Task Vehicle (UTV) Accident		
75.	2023- 2024	Agricultural	Silage Bagger Accident		
76.	2023- 2024	Transportation	Recreational Off-Highway Vehicle (ROV) / Utility Task Vehicle (UTV) Accident		
77.	2024	Transportation	Meridian Rapid Defense Group v. Delta Scientific – Patent Infringement	Yes	

Steven J. Roensch Expert Testimony List

Current as of April 5, 2024

Professional Experience:42 yearsExpert Witness Experience:29 yearsTotal Testimony:23Deposition:18Courtroom:4Arbitration:1Patent Cases:8Total Cases:77

Cases in which Steven J. Roensch testified as an expert at trial or by deposition:

	Meridian Rapid Defense Group LLC v. Delta Scientific Corporation Case No.: 2:23-cv-07222
	United States District Court for the Central District of California
23.	March 18, 2024 – Testimony by deposition
	Allied Services, LLC v. Smash My Trash, LLC, et al.
	Case No. 4:21-cv-00249
22.	United States District Court for the Western District of Missouri August 25, 2022 – Testimony by deposition
21.	February 28, 2024 – Testimony at trial
	The Shuft Croup USA Inc. f/k/e Sporten Meters USA Inc.
	The Shyft Group USA, Inc., f/k/a Spartan Motors USA, Inc., v. API Heat Transfer Thermasys Corporation
	Case No. 1:18-cv-00797-RJJ-RSK
	United States District Court
20.	for the Western District of Michigan Southern Division March 7, 2022 – Testimony by deposition
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	Moreland, et ux. v. The Sportsman's Guide, Inc.
	Case No. 1:17-cv-01034-LJV-JJM United States District Court for the Western District of New York
19.	November 8, 2021 – Testimony by deposition
	Elliott v. Tractor Supply Company
	Civil Action No. 14-C-80
	Circuit Court of Brooke County, West Virginia
18.	September 15, 2015 – Testimony by deposition

Steven J. Roensch Expert Testimony List (continued)

17.	Hoffman v. Dorel dba Cosco Case No. 14-CV-21229-HUCK/OTAZO-REYES United States District Court for the Southern District of Florida October 21, 2014 – Testimony by deposition
16. 15.	McDonald v. Toyota Civil Action No. 1:13-cv-00704-RM-KMT United States District Court for the District of Colorado February 20, 2014 – Testimony by deposition April 23, 2014 – Testimony by deposition
14.	Harkins v. OWT Industries, Inc. Case No. 5:12-CV-00065-TBR United States District Court for the Western District of Kentucky at Paducah May 6, 2013 – Testimony by deposition
13.	Aries Well Service, Inc. v. The Hanover Insurance Company Case No. 7:12-CV-00006 RAJ United States District Court for the Western District of Texas, Midland-Odessa Division October 3, 2012 – Testimony by deposition
12. 11.	Custom Metals v. Motion Industries, et al. Case No. 08CV3421 Circuit Court of Dane County, State of Wisconsin July 29, 2010 – Testimony by deposition February 4, 2011 – Testimony at trial
10.	Tezanos v. Boss Hoss Cycles Civil Action No. 3:09-cv-0284 United States District Court for the Southern District of Texas, Galveston Division December 1, 2010 – Testimony by deposition
9.	McNicoll v. Northern Tool & Equipment, et al. No. Civ. 08-00883 JC/LAM United States District Court for the District of New Mexico November 19, 2009 – Testimony by deposition

Steven J. Roensch Expert Testimony List (continued)

Current as of April 5, 2024

ſ	McDaniel v. Smith International, et al. Cause No. 2007-75537
8.	District Court 61st Judicial District, Harris County, Texas April 21, 2009 – Testimony by deposition

Lankford v. Energy Industries

7. 2009 – Testimony by deposition

Fidelity & Deposit of Md. v. KFX

- 6. 2009 Testimony by deposition
- 5. 2009 Testimony at trial

Racine Federated v. Homelite

- 4. January 18, 1999 Testimony by deposition
- 3. October 20, 1999 Testimony at arbitration

Rakes v. Simon-RO

- 2. 1996 Testimony by deposition
- 1. 1997 Testimony at trial

Steven J. Roensch Representative Consulting Projects

Current as of April 5, 2024

Grain & Semi Trailers Space Station Components Wind Turbines Motorcycle Components **Aircraft Engine Pistons** Agricultural Vehicles Aircraft Engine Cylinders Earth Moving Equipment Aircraft Engine Crankshafts Industrial Forklifts **Airliner Components Rough Terrain Forklifts** Airliner Manufacturing Equipment **Rock Crushers** Marine Outboard Crankshafts Jaw Crushers Marine Outboard Cowlings & Castings **Cone Crushers** Marine Inboard Manifolds Vibrating Gravel Screens **River Barge Equipment Gravel Conveyors Steel Bollard Barriers Transmission Housings Concrete Blast Walls Transmission Gears** Industrial Robots Cranes **Robot Gantries** Chain Links Man Lifts **Oil Field Equipment Fuel Plant Piping** Escalators Hydraulic Motors Medical Diagnostic Equipment Medical Beds and Lifts **Electric Motors** High-Speed Motor Winding Equipment Athletic Braces **Boiler Components Computer Disk Drive Components HVAC Manifolds** Generator Enclosures Automotive Battery Housings Pneumatic Cartridges Automotive Door Assemblies Foundry Ovens Automotive Drive Components Food Processing Equipment Automotive Mirror Housings Cooking Platens Automotive Radiators **High-Precision Machining Equipment** Automotive Seating **Concrete Vibrators** Automotive Steering Components **Plumbing Products** Crash & Rescue Vehicles **Commercial Windows Recreational Vehicles Distiller Housings Commercial Trucks Plastic Gears** Truck Racks

Steven J. Roensch Representative Consulting Clients

ABB Robotics	Joerns Healthcare
Abrams Airborne	Johnson Controls
Advanced Machine & Tool	Kohler Engines
Allen-Bradley	Kohler Plumbing
Bartell Machinery Systems	Lippmann
Bison Engineering	Magnetrol
Boeing	Maynard Steel Casting
Brooks Stevens Design	McCloskey International
DeltaHawk Engines	Mercury Marine
Dynamic Fan Corporation	Metso Minerals
Eaton Corporation	Milwaukee Metal Products
Erie Manufacturing	Modine
Falk Corporation	Nordberg/Metso Minerals
Flanders Electric	Oshkosh Truck
G.E. Medical Systems	Osmonics Autotrol
Georgia-Pacific/Fort James	Rexnord
Giddings & Lewis	Rockwell Automation/Allen-Bradley
Harley-Davidson	Simon Aerials
Hewlett-Packard	Strattec Security Corporation
Hoyer Lifts/Sunrise Medical	Terex Cranes
IBM Corporation	Toyota
In-Sink-Erator	Trak International
J.E.I. Metallurgical	Wyco Tool
J.I. Case/International Harvester	Zond Energy Systems