Steven J. Roensch
Curriculum Vitae

Current as of August 26, 2026

Executive Summary

- Robust background in Engineering Mechanics, Physics and Mathematics
- 44 years of professional experience analyzing product designs and failures

- Expert Witness on 95 cases
- Testified 25 times
- Defendant and Plaintiff investigations
- Product Liability, Personal Injury, Patent Infringement & Invalidity

- 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

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 & invalidity
    - 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

ASME – American Society of Mechanical Engineers (Life Member)

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, 2005
- 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 August 26, 2026

Professional Experience:	44 years
Expert Witness Experience:	31 years
Total Testimony:	25
Deposition:	20
Courtroom:	4
Arbitration:	1
Patent Cases:	12
Total Cases:	95

Steven J. Roensch
Litigation Experience (continued)

Current as of August 26, 2026

	Date	Industry	Description	Deposition	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	

	Date	Industry	Description	Deposition	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		

	Date	Industry	Description	Deposition	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	Industry	Description	Deposition	Courtroom/ Arbitration
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		

	Date	Industry	Description	Deposition	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	Retail	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	Retail	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		

	Date	Industry	Description	Deposition	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	Retail	Pawlik v. Alco Manufacturing Co. – Tree Stand Ratchet Strap Failure		
68.	2019-2020	Industrial	Brush Cutter Design – Patent Infringement		
69.	2019-2025	Retail	Moreland v. Sportsman's Guide – 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		

	Date	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.	2023-2026	Agricultural	Silage Bagger Accident		
76.	2023-2026	Transportation	ROV / UTV Accident		
77.	2024-2025	Transportation	Portable Bollard Barrier Design – Patent Infringement	Yes	
78.	2024-2025	Medical	Ambulance Cots and Fasteners – Patent Infringement		
79.	2024-2025	Industrial	Acquest v. Johnson Controls – Fire Protection Sprinkler System OS&Y Gate Valve Failure	Yes	
80.	2024-2026	Industrial	Formaspace v. Amazon.com – Industrial Workstation Defects	Yes	
81.	2024-2026	Residential	Washing Machine Explosion		
82.	2024-2025	Commercial	Encore Wire v. Southwire LLC – Patent Infringement / Invalidity		
83.	2024-2026	Industrial	Filtration System Valve Failure		
84.	2024-2026	Retail	Bahme v. Cheney High School – Soccer Goal Fatality		

Steven J. Roensch
Litigation Experience (continued)

Current as of August 26, 2026

	Date	Industry	Description	Deposition	Courtroom/ Arbitration
85.	2025-2026	Industrial	Automotive Lift Car Stacker Accident		
86.	2025-2026	Transportation	All-Terrain Vehicle (ATV) Accident		
87.	2025-2026	Industrial	Bonilla v. Trebor Industries, Inc. d/b/a Brownie's Third Lung – Tankless Diving Accident		
88.	2025-2026	Transportation	Semi-Truck Injury		
89.	2025-2026	Industrial	Mechanical Device – Patent Infringement / Invalidity		
90.	2025-2026	Medical	Medical Device – Patent Infringement / Invalidity		
91.	2026	Transportation	Utility Task Vehicle (UTV) Rollaway Accident		
92.	2026	Commercial	Step Ladder Failure		
93.	2026	Industrial	Fire Monitor Accident		
94.	2026	Marine	Boating Fatality		
95.	2026	Transportation	Utility Task Vehicle (UTV) Accident		

Steven J. Roensch
Expert Testimony List

Current as of August 26, 2026

Professional Experience:	44 years
Expert Witness Experience:	31 years
Total Testimony:	25
Deposition:	20
Courtroom:	4
Arbitration:	1
Patent Cases:	12
Total Cases:	95

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

Formaspace LP v. Amazon.com Services LLC
Case No. 24-2-13472-7 SEA
Superior Court for the State of Washington for King County
25. February 24, 2026 – Testimony by deposition

Acquest Holdings FC, LLC, et al v. Johnson Controls, Inc.
Case No. 23-cv-00636-STV
United States District Court for the District of Colorado
24. August 20, 2024 – Testimony 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
United States District Court for the Western District of Missouri
22. August 25, 2022 – Testimony by deposition
21. February 28, 2024 – Testimony at trial

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
for the Western District of Michigan Southern Division
20. March 7, 2022 – Testimony by deposition

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

Hoffman v. Dorel dba Cosco
Case No. 14-CV-21229-HUCK/OTAZO-REYES
United States District Court for the Southern District of Florida
17. October 21, 2014 – Testimony by deposition

McDonald v. Toyota
Civil Action No. 1:13-cv-00704-RM-KMT
United States District Court for the District of Colorado
16. February 20, 2014 – Testimony by deposition
15. April 23, 2014 – Testimony by deposition

Harkins v. OWT Industries, Inc.
Case No. 5:12-CV-00065-TBR
United States District Court
for the Western District of Kentucky at Paducah
14. May 6, 2013 – Testimony by deposition

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
13. October 3, 2012 – Testimony by deposition

Custom Metals v. Motion Industries, et al.
Case No. 08CV3421
Circuit Court of Dane County, State of Wisconsin
12. July 29, 2010 – Testimony by deposition
11. February 4, 2011 – Testimony at trial

Tezanos v. Boss Hoss Cycles
Civil Action No. 3:09-cv-0284
United States District Court
for the Southern District of Texas, Galveston Division

10. December 1, 2010 – Testimony by deposition

McNicoll v. Northern Tool & Equipment, et al.
No. Civ. 08-00883 JC/LAM
United States District Court for the District of New Mexico

9. November 19, 2009 – Testimony by deposition

McDaniel v. Smith International, et al.
Cause No. 2007-75537
District Court
61st Judicial District, Harris County, Texas

8. 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
Expert Patent Cases

Current as of August 26, 2026

Steve has served as an expert on 12 patent cases:

Medical Device – Patent Infringement / Invalidity
(current case)

Mechanical Device – Patent Infringement / Invalidity
(current case)

Electrical Equipment Infringement & Invalidity
Encore Wire Corporation v. Southwire Company, LLC
Civil Action No. 4:23-CV-00821
United States District Court for the Eastern District of Texas Sherman Division
- Claim construction
- Declaration

Ambulance Cot Patent Infringement & Invalidity
Stryker Corporation v. Ferno-Washington, Inc.
Case No. 1:22-cv-00588
United States District Court Southern District of Ohio Western Division
- Claim construction
- Declaration

Bollard Barrier Patent Infringement
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
- March 18, 2024 – Testimony by deposition
- Claim construction

All-Terrain Vehicle ATV Design
Polaris Industries, Inc. v. Arctic Cat Inc., 2016-2017
Patent No. 7,743,864
- Prepared August 2016 IPR Declaration

Mower Deck Patent Infringement
Deere and Co. v. Bush Hog, LLC, 2013
Patent No. 6,052,980
- Extensive modeling and finite element analysis of mower deck designs and features
- Preparation of graphics slides and videos
- Thorough review of opposing expert's modeling, reports and deposition testimony
- Prepared October 2013 Declaration
- Attended trial; Deere chose not to call experts

Helicopter Landing Gear Assembly
Bell Helicopter Textron Inc. v. American Eurocopter LLC et al, 2011
Patent No. 5,462,242
- Analyzed helicopter landing gear assembly for stress concentrations
- Compared design to a competitive landing gear assembly
- Identified significant differences in the design intent

Vibrational Dynamics of Material Spreader, 2014
- Performed extensive vibrational testing of client's and 3rd party material spreader
- Analyzed and reported results to client with emphasis on patent infringement

Brush Cutter Design, 2019
- Compared brush cutter head designs
- Calculated cutting force vs. various parameters for client and 3rd party designs

Evans v. Stihl Inc., 2015
- Chain saw fuel tanks, patent related
- Compared chain saw body and fuel tank designs

Chair Gas Spring, 2015
- Commercial seat gas spring, patent related
- Compared gas spring and chair designs

Steven J. Roensch
Representative Consulting Projects

Current as of August 26, 2026

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

Steven J. Roensch
Representative Consulting Clients

Current as of August 26, 2026

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