

Steven J. Roensch

Education

Master of Science in Engineering Mechanics

May 1982, University of Wisconsin–Madison, GPA 4.00

Specialized in elasticity and stress analysis

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

May 1981, University of Wisconsin–Madison, GPA 3.95

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 – 100+ confidential reports detailing the analysis of the customers' 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 – Taught *Statics* and *Strength of Materials* engineering classes, 1981–1982

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Litigation Experience

Current as of September 2008

<u>Date</u>	<u>Industry</u>	<u>Description</u>	<u>Deposition</u>	<u>Testimony</u>
1995-1997	Utility	Rakes v. Simon-RO – Utility Truck Boom Failure	Yes	Yes
1997	Utility	Electrical Insulator Lifter Failure	No	No
1998	Industrial	Toyota Material Handling U.S.A. – Forklift Fatality	No	No
1998	Energy	TU Electric – Electric Plant Vessel Failure	No	No
1998	Construction	Simon-Access – Boom Descent Time	No	No
1998	Industrial	Lattimore – Conveyor Lift Accident	No	No
1999	Industrial	Bolin – Forklift/Shipping Container Accident	No	No
1999	Transportation	Fire Truck Accident	No	No
1999	Commercial	Bush Hog – Metal Blade Failure	No	No
1997-1999	Construction	Racine Federated v. Homelite – Concrete Vibrator Engine Failures	Yes	Yes
2000-2002	Energy	Fidelity & Deposit of Md. v. KFX – Fuel Plant Fire	Yes	Yes
1999-2003	Energy	Lankford v. Energy Industries – Natural Gas Plant Explosion	Yes	No
2004	Industrial	Chain Link Weld Flaw Failure	No	No

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Litigation Experience (continued)

Current as of September 2008

<u>Date</u>	<u>Industry</u>	<u>Description</u>	<u>Deposition</u>	<u>Testimony</u>
2004	Industrial	Toyota Material Handling U.S.A. – Forklift Accident	No	No
2004	Energy	Bridges v. Hydra Rig – Oil Field Equipment Failure	No	No
2004-2006	Energy	Jackson v. Phillips – Mining Equipment Failure	No	No
2005-2006	Residential	Grasso v. Poly Vinyl – Filtration System Polymeric Line Failure	No	No
2007	Industrial	Electric Motor Cooling Fin Failure	No	No
2006-2007	Construction	Flippin v. Crocker Crane – Derrick Boom Failure	No	No
2006-2007	Construction	Hoover Dam Cableway Tower Collapse	No	No
2007	Commercial	Brunner v. US Chemical – Dispenser Chemical Spill	No	No
2007-2008	Medical	Surgical Tool Failure	Ongoing	
2007-2008	Transportation	Flatbed Truck Accident	Ongoing	
2008	Transportation	Motorcycle Lift Failure	Ongoing	

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Representative Consulting Projects

Current as of September 2008

Fuel Plant Piping	Crash & Rescue Vehicles
Oil Field Equipment	Recreational Vehicles
Space Station Components	Commercial Trucks
Wind Turbines	Truck Racks
Aircraft Engine Pistons	Motorcycle Components
Aircraft Engine Cylinders	Agricultural Vehicles
Aircraft Engine Crankshafts	Earth Moving Equipment
Airliner Components	Rock Crusher Components
Military Truck Components	Transmission Housings
Military Trailer Components	Transmission Gears
Military Missile Loaders	Cranes
Marine Outboard Crankshafts	Chain Links
Marine Outboard Cowlings & Castings	Man Lifts
Marine Inboard Manifolds	Medical Diagnostic Equipment
Industrial Robots	Medical Beds and Lifts
Robot Gantries	Athletic Braces
Hydraulic Motors	Computer Disk Drive Components
Electric Motors	HVAC Manifolds
High-Speed Motor Winding Equipment	Pneumatic Cartridges
Boiler Components	Food Processing Equipment
Generator Enclosures	High-Precision Machining Equipment
Automotive Radiators	Concrete Vibrators
Automotive Mirror Housings	Plumbing Products
Automotive Battery Housings	Commercial Windows
Automotive Steering Components	Distiller Housings
Automotive Drive Components	Plastic Gears
Automotive Seating	

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Representative Consulting Clients

Current as of September 2008

ABB Robotics	Johnson Controls
Advanced Machine & Tool	Kohler Engines
Brooks Stevens Design	Kohler Plumbing
DeltaHawk Engines	Magnetrol
Eaton Corporation	Maynard Steel Casting
Erie Manufacturing	Mercury Marine
Falk Corporation	Modine
G.E. Medical Systems	Nordberg/Metso Minerals
Georgia-Pacific/Fort James	Oshkosh Truck
Giddings & Lewis	Osmonics Autotrol
Harley-Davidson	Rexnord
Hewlett-Packard	Rockwell Automation/Allen-Bradley
Hoyer Lifts/Sunrise Medical	Simon Aerials
IBM Corporation	Strattec Security Corporation
In-Sink-Erator	Terex Cranes
J.I. Case/International Harvester	Trak International
Joerns Healthcare	Wyco Tool