

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

- 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 January 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 January 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	

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Representative Consulting Projects

Current as of January 2008

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

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Representative Consulting Clients

Current as of January 2008

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