



Daniel M. Desautels, M.S., P.E.

Senior Engineer

**Principia Engineering, Inc.
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Experience

Mr. Daniel Desautels is a Mechanical Engineer with Principia. His areas of expertise include vehicle dynamics, instrumentation and testing, and electronic data recording systems. Mr. Desautels specializes in accident reconstruction and failure analysis of mechanical systems. He is proficient in digital data acquisition for measurement and analysis of acceleration, vehicle speed, and component displacement. He also has expertise using computer simulation software for accident reconstruction and analysis.

Prior to working at Principia, Mr. Desautels was a Consultant with Rimkus Consulting, and prior to that an Engineer with Talas Engineering. He received his master's degree in Mechanical Engineering at Stanford University, where he specialized in dynamics. Mr. Desautels is also a certified Bosch CDR System Technician and Data Analyst and an ACTAR accredited accident reconstructionist. Mr. Desautels has been working in the fields of accident reconstruction and failure analysis since 2007.

Education and Credentials

- M.S., Mechanical Engineering, Stanford University, 2011
- B.S., Mechanical Engineering, University of California, Davis, June 2007
- Registered Professional Mechanical Engineer, California, #M35800
- ACTAR Accredited Traffic Accident Reconstructionist #2958
- Member: American Society of Mechanical Engineers (ASME)
- Member: Society of Automotive Engineers (SAE)
- Tau Beta Pi Engineering Honor Society
- Regents' Scholar, University of California, Davis

Continuing Education

- CDR Technician and Analyst Training Courses, Collision Safety Institute, September 2007

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- How to Interpret Commercial Vehicle Event Data Recorders, University of Tulsa, March 2012
- FARO Laser Scanner Training, March 2015 and June 2016
- Energy Methods and Damage Analysis in Traffic Crash Reconstruction, Institute for Police Technology and Management, June 2015
- Investigation of Commercial Vehicle Crashes, Institute for Police Technology and Management, October 2015

Publications

“Lumbar Loads while Operating Vehicles in an Industrial Environment,” 7th World Congress of Biomechanics, Boston, MA, July 2014 (with C.Y. Chang, E.R. Serina, and K. White).

“Common Head Acceleration Exposures in the Early Pediatric Population,” Annual Meeting of the American Society of Biomechanics, University of Florida, August 2012 (with E. R. Serina).

“Rollout Deceleration of Modern Passenger Vehicles,” SAE Technical Paper 2012-01-0616, SAE International 2012 World Congress, Detroit, Michigan, April 24, 2012 (with K. White, R. Merala, and T. Ellis-Caleo).

“Driver Perception of a Loose Rear Wheel,” SAE Technical Paper 2010-01-0050, SAE International 2010 World Congress, Detroit, Michigan, April 12, 2010 (with K. White and R. Merala).

“Occupant Kinematics in Locomotive Low-Speed Impacts,” Annual Meeting of the American Society of Biomechanics, Penn State University, August 2009 (with E.R. Serina, F.J. Peterson, and K. White).

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