

Curriculum Vitae

Rachel E. Keller, P.E.



Professional Profile

Ms. Keller is a Professional Engineer and senior consultant with experience, education, and training in the fields of Mechanical Engineering and Forensic Engineering. With Bachelor's and Master's Degrees in Mechanical Engineering, a Commercial Driver's License (CDL), and years of experience in the investigation and analysis of vehicle safety issues, her Professional Engineering practice is focused on providing consulting services to legal, insurance, governmental, and corporate clients throughout the southeastern United States.

Specific areas of expertise include passenger vehicle collision reconstruction, commercial vehicle crash investigation and analysis, pedestrian, bicycle, motorcycle, and alternative vehicle incidents, vehicle dynamics modeling, 3-D imaging and animation technology, driver performance and avoidance capabilities, product failures, and vehicle system components. Her ongoing continuing education, training, and certifications maintain her knowledge of the latest developments in the field, qualifying her to render opinions in insurance claims, criminal proceedings, and civil litigation. Ms. Keller has been court-qualified to provide expert witness testimony at trial.

Licensure and Professional Certification

Professional Engineer, State of Florida, #71452

Bendix Air Brake Specialist

Certified Crash Data Retrieval (CDR) Technician and Analyst
Bosch / Vetronix

Professional Affiliations

Florida Engineering Society (FES), Member

American Society of Mechanical Engineers, Member

Contact Information

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Education

Florida State University
Tallahassee, Florida
Master of Science in Mechanical Engineering

Virginia Tech University
Blacksburg, Virginia
Bachelor of Science in Mechanical Engineering

Work Experience

Armstrong Forensic Engineers
Senior Consultant: 2010-Present

Quest Engineering & Failure Analysis, Inc.
Project Engineer: 2006-2010

Florida State University
Graduate Teaching Assistant: 2006
Research Assistant: 2004-2005

Celanese Acetate
Engineering Co-op: 2002-2003

Professional Development

Northwestern University Center for Public Safety

- Traffic Accident Reconstruction I, 2007
- Traffic Accident Reconstruction 2, 2007
- Heavy Vehicle Crash Reconstruction, 2008

Society of Automotive Engineers

- SAE Applied Vehicle Dynamics, 2008

Collision Safety Institute

- Vetronix Crash Data Retrieval (CDR) Certified Analyst Course, 2008
- CDR Download Applied Field Training, 2008

Engineering Dynamics Corporation

- HVE Software Training, 2008

Pantropic Power

- CAT Electronic Technician "ET" Operation, 2007

Bendix

- Bendix Air Brake Systems Training, 2008

Institute of Police Technology and Management (IPTM)

- Methodology and Techniques of Crash Data Retrieval, 2007

Leica Geosystems HDS

- Leica Geosystems Basic Training Course, 2009

Florida Institute for Consulting Engineering

- Highway Lighting, Roadway Expo

Quest Engineering and Failure Analysis, Inc.

- Motor Vehicle Accident Reconstruction, Crash Analysis and Crash Testing, 2006
- Commercial Motor Vehicle Electronic Data Retrieval, 2007
- Air Brake Seminar, 2008
- Practical Vehicle Dynamics and Tire Mark Interpretation, 2008

Seminar and Course Presentations

"Commercial Motor Vehicle Electronic Data Retrieval Seminar and Demonstrations"

Quest Engineering & Failure Analysis, Inc., 2010

"Class A CDL License"

Quest Engineering & Failure Analysis, Inc., 2009

"The Basics of Accident Reconstruction"

Inns of Court, 2009

"Accident Reconstruction and Seat Belt Analysis"

Quest Engineering & Failure Analysis, Inc., 2008

"Applied Vehicle Dynamics and Tire Mark Analysis for Passenger Cars and Commercial Motor Vehicles"

Quest Engineering & Failure Analysis, Inc., 2008