

Adam Wise PE, ACTAR

PRINCIPAL MECHANICAL ENGINEER



Adam is a registered Professional Engineer providing consulting services in the areas of motor vehicle crash investigation, reconstruction analysis, and product liability claims. He applies his engineering expertise to develop a comprehensive understanding of the incident and provides his clients with a clear, concise explanation of the technical issues. Adam has testified at deposition and trial in numerous jurisdictions across the country. His experience includes cases involving passenger vehicles, motorcycles, ATVs, ROVs, commercial vehicles, agricultural equipment, bicycles, and pedestrians.

FORENSIC ENGINEERING EXPERIENCE

4Moto Engineers Madison, WI
Principal Mechanical Engineer 2018-present

Crane Engineering / Safety Engineering Associates Madison, WI
Mechanical Engineer 2002-2018

- Motor vehicle crash investigation
- Crash site and vehicle documentation and evidence preservation
- Event Data Recorder ("Black Box") imaging and data analysis
- Reconstruction analysis and computer simulation
- 2D and 3D visualization of motor vehicle crashes and vehicle dynamics
- Motorcycle, ATV, and ROV design analysis
- Vehicle instrumentation, testing, and data analysis
- Vehicle handling and stability evaluations
- Expert witness testimony at deposition and trial

EDUCATION

Master of Science-Mechanical Engineering
University of Wisconsin-Madison, 2001

Bachelor of Science-Mechanical Engineering
University of New Hampshire, 1998

LICENSURE AND CERTIFICATIONS

Licensed Professional Engineer
Wisconsin, #37657

ACTAR Accredited Traffic Accident Reconstructionist
#1922

Certified Crash Data Retrieval System Operator
and Data Analyst

PROFESSIONAL AFFILIATIONS

Member-Society of Automotive Engineers (SAE)

Member-National Association of Professional
Accident Reconstructionist Specialists (NAPARS)

VEHICLE OPERATION HISTORY

On-road motorcycle operation since 2003

Off-road motorcycle operation since 2002

ATV and ROV operation since 2002

Agricultural equipment operation 1990-1996



Forensic Vehicle Engineers

ADDITIONAL EXPERIENCE

Powertrain Control Research Laboratory, University of Wisconsin-Madison

Research Assistant 1999-2001

- Developed instrumentation system for measuring diesel exhaust emissions on a high bandwidth transient dynamometer engine test cell
- Implemented and tested OBD-II compliant exhaust gas recirculation (EGR) monitoring system

Space Science Center, University of New Hampshire

Mechanical Engineering Supervisor 1996-1999

- Supervised student team of mechanical engineers developing a small satellite for scientific research
- Designed mechanical packaging for scientific instruments and electronics
- Prepared engineering drawings for manufacturing and coordinated production of parts
- Developed 3D computer models of parts and assemblies
- Established and documented component assembly procedures

Mini Baja Team, University of New Hampshire

Powertrain Systems Engineer 1997-1998

- Designed, analyzed, and tested propulsion system for single occupant off-road vehicle
- Involved in design evaluation, component fabrication, and testing of entire vehicle

Wise Knoll Farm Derry, NH 1990-1996

- Farm labor and light machinery maintenance

CONTINUING EDUCATION

Midwest Association of Technical Accident Investigations – Annual Meeting and Training Seminar June 2017

Northwestern University, Center for Public Safety – Advanced Crash Reconstruction Utilizing Human Factors Research May 2016

MEA Forensic: PC-Crash Workshop July 2014

Northwestern University, Center for Public Safety – Pedestrian-Vehicle Crash Reconstruction Course May 2014

Northwestern University, Center for Public Safety – CDR Data Analyst Course May 2012

MEA Forensic: PC-Crash Workshop April 2011

SAE Seminar: Applied Vehicle Dynamics November 2008

Investigating Eccentric Collisions October 2007

Vetronix CDR System User's Conference January 2007

Vetronix CDR System Data Analyst's Certification Course October 2006

SAE Seminar: Vehicle Accident Reconstruction Methods December 2004

Vetronix Crash Data Retrieval System Operator Course May 2004

ATV Safety Institute Rider Course March 2004

Motorcycle Safety Foundation Basic Rider Course September 2003

FARO Basic Measurement Training Course April 2003

SAE Seminar: Vehicle Dynamics Applied to Racing March 2003

Engineering Dynamics Corporation Simulations Training Course January 2003