

## PROFESSIONAL RESUME

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### EDUCATION:

**1996** B.S. Mechanical Engineering  
**Michigan Technological University**, Houghton, MI

### PROFESSIONAL EXPERIENCE:

- 2000-Present** *Engineer, Ponderosa Associates, Ltd., Lafayette, CO*
- Forensic Engineering and Accident Reconstruction
  - Expert Witness Testimony
  - Specializing in motor vehicle reconstruction analysis for a wide range of cases including product defects and criminal defense
  - Investigation, Reconstruction Analysis, Photo Analysis, Rule 26 Reports, Exhibits, Research, Testing
  - In-house training for Reconstruction and use of Software and Reconstruction tools
- 1999-2000** *Engineer, Knott Laboratory, Inc., Englewood, CO*
- Forensic Engineering and Accident Reconstruction
  - Specializing in motor vehicle reconstruction analysis for low speed/low severity collisions
- 1996-1997** *Engineer, Honda R & D North America, Inc., Raymond, OH*
- Human Factors Test Engineer
  - Developed and implemented new test methods
  - Approved prototype parts for mass production and local procurement
  - Researched and collected extensive aspects and measurements of competitor vehicles
  - Participated in side and frontal impact crash testing
- 1995-1996** *Professor Assistant, Michigan Technological University, Houghton, MI*
- Aided in the correction and development of a machine component design book
  - Created mathematical examples, along with solutions, for a numerical method textbook

- 1995**                    *Engineering Intern, Delphi Energy & Engine Management Systems, Flint, MI*
- Fuel Systems – Motor variation study of a concept fuel pump
  - Developed and performed testing for a research project involving the efficiency of a fuel pump
  - Created a database for purchasing department
- 1994**                    *Engineering Intern, 3-Dimensional Services, Rochester, MI*
- Participated in rapid prototyping technology and processes

**ACCREDITATIONS/PROFESSIONAL DESIGNATIONS:**

ACTAR #2441 – 2011, renewed 2016  
Engineer in Training (EIT), Michigan – 1996

**CERTIFICATIONS/CONFERENCES:**

Heavy Vehicle Crash Reconstruction (Northwestern) – 2016  
Vehicle Dynamics for Passenger Cars and Light Trucks (SAE) – 2016  
Introduction to Brake Control Systems (SAE) – 2016  
Crash Data Retrieval (CDR) Technician & Data Analyst – 2007; 2010; 2015  
How to Interpret Commercial Vehicle Event Data Recorders – 2010  
HVE Forum – 2004; 2011  
ARC-CSI Crash Conference 2008

**GUEST SPEAKER/VOLUNTEER EXPERT:**

CTLA Trial Academy – 2014; 2015  
STEM Student Seminar – 2013; 2015  
Class Lecturer: Mountain Range High School – 2011  
STEM Teachers Seminar – 2012  
AIEG Paralegal Conference – 2010  
University of Maryland Women in Engineering – 2003

**PROFESSIONAL ORGANIZATIONS:**

Society of Automotive Engineers (SAE)