

## PROFESSIONAL RESUME

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### EDUCATION:

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

### PROFESSIONAL EXPERIENCE:

- 2000-Present** *Consultant, Ponderosa Associates, Ltd., Westminster, CO*
- Motor vehicle reconstruction analysis of low and high severity crashes, trucking crashes, rollover crashes, and crashes involving pedestrians, motorcycles and bicycles
  - Analysis, research and testimony for a wide range of cases relating to accident reconstruction for product liability and criminal defense
- 1999-2000** *Engineer, Knott Laboratory, Inc., Englewood, CO*
- Forensic Engineer and Accident Reconstruction
  - Focus on low severity crashes
- 1997-1998** *Bus Driver, Town of Vail, Vail, CO*
- CDL Class B
- 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:**

SAE Accident Reconstruction Certificate – 2020

ACTAR #2441 – 2011

Engineer in Training (EIT), Michigan – 1996

**CERTIFICATIONS/CONFERENCES:**

Driver Distraction from Electronic Devices: Insights and Implications – SAE 2020

Accident Reconstruction, the Autonomous Vehicle and ADAS – SAE 2020

Human Factors – SATAI 2019

Applying Automotive EDR data to Traffic Crash Reconstruction – SAE 2018

Commercial Vehicle Event Data Recorders – 2010, 2017

Introduction to Brake Control Systems – SAE 2016

Vehicle Dynamics for Passenger Cars and Light Trucks – SAE 2016

Heavy Vehicle Crash Reconstruction – Northwestern 2016

Crash Data Retrieval (CDR) Technician & Data Analyst – 2007; 2010; 2015

HVE Forum – 2004; 2011

ARC-CSI Crash Conference 2008

**GUEST SPEAKER/VOLUNTEER:**

STEM Student Seminar – 2013; 2015; 2017; 2018

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)

Southwestern Association of Technical Accident Investigators, Inc. (SATAI)