

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.*, Westminster, CO
- Assistant and Lead Project Engineer – Accident Reconstruction
 - Motor vehicle reconstruction analysis of low and high severity accidents, rollover accidents, and accidents involving pedestrians, motorcycles and bicycles
 - Prepare reports and exhibits for a wide range of cases relating to causation, forces, liability and other Forensic Engineering matters
 - Perform research
- 1999-2000** *Engineer, Knott Laboratory, Inc.*, Englewood, CO
- Forensic Engineer and Accident Reconstruction
- 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

Engineer in Training (EIT), Michigan – 1996

CERTIFICATIONS/CONFERENCES:

Heavy Vehicle Crash Reconstruction – 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:

CDLA 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)

The American Society of Mechanical Engineers (ASME)