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RESUME'

DEAN L. DAVIDSON, B.S.M.E., P.E.

EDUCATION/REGISTRATIONS

Bachelor of Science, Mechanical Engineering, New Mexico State University, 1986.
New Mexico Registered Professional Engineer, #12854, (7/95)
Texas Registered Professional Engineer, #81748, (1/97)
Oklahoma Registered Professional Engineer, #20575, (4/02)

EXPERIENCE

Accident Reconstructionist: TNM Engineering, LLC

El Paso, Texas 2008-Present

Investigation and reconstruction of transportation accidents and equipment & component failures.

Accident Reconstructionist: TNM Engineering and Accident Reconstruction

El Paso, Texas 1997-2008

Investigation and reconstruction of transportation accidents and equipment & component failures.

Computer Animator / President: Northstar Technologies

Las Cruces, New Mexico 1991-1997

Production of computer animations for courtroom usage.

Accident Reconstructionist: Evans and Associates, Inc.

Las Cruces, New Mexico 1986-1997

Investigation and reconstruction of transportation accidents and equipment & component failures.

Mechanical Designer: Stoneybrook, Inc.

Las Cruces, New Mexico 1986-1987

Designed and fabricated miniature electro-mechanical scanners for use in non-destructive testing.

Machinist: Ottesen Machine Co.

Las Cruces, New Mexico 1973-1976, 1981-1983

Operated precision milling machines, lathes, and sheet metal fabrication equipment.

Boiler Technician, Second Class: United States Navy

U.S.S. Hull DD945 1977-1981

Operation and maintenance of steam propulsion equipment and auxiliary systems.

PROFESSIONAL SOCIETIES

ASME, American Society of Mechanical Engineers.

SAE, Society of Automotive Engineers.

NAPARS, National Association of Professional Accident Reconstruction Specialists.

SPECIALIZED TRAINING / CONTINUING EDUCATION

Southwestern Association of Technical Accident Investigators, "Skid Testing" (Car, Motorcycle, Articulated Bus, Fire Truck, Garbage Truck), Phoenix, Arizona, 1987.

Michelin Tire Corporation, "Tire Inspection" seminar, Long Island, New York, 1987.

SAE International Congress and Exposition, "Accident Reconstruction" seminars, Detroit, Michigan, 1987.

Standards Testing Laboratories, "Tire Inspection & Testing" seminar, Akron, Ohio, 1988.

TrukSafe America Risk Management, Inc., "Articulated Vehicle" (Maintenance, Brakes, Driving, Accident Avoidance), Phoenix, Arizona, 1988.

AIP, California Highway Patrol, and Society of Automotive Engineers, "Anti-Lock Brake" course, Sacramento, California, 1988.

Engineering Dynamics Corporation, "EDC Reconstruction" school, Houston, Texas, May 1990.

The Traffic Institute, "Traffic Accident Reconstruction I", Northwestern University, Evanston, Illinois, April 1994.

Michelin Tire Corporation, "Tire and Vehicle Dynamics" course, Nevada Automotive Research Center, Reno, Nevada, September 1995.

IPTM "Commercial Vehicle Accident Investigation", Tempe, Arizona, September 1996.

Texas A&M University, TEEX, "Advanced Commercial Vehicle Inspection and Collision Reconstruction", San Diego, California, September 1998.

Society of Automotive Engineers, "Passenger Car Rollover TOPTEC: Cause & Prevention", San Diego, California, January 1999.

Texas A&M University, TEEX, "Pedestrian and Bicycle Collision Reconstruction", El Paso, Texas, July 2000.

Vetronix, "CDR Training Seminar", Santa Barbara, California, June 2001.

ARC-CSI Crash Conference, Las Vegas, Nevada, June 2003.

IPTM, "Human Factors in Traffic Crash Reconstruction", Jacksonville, Florida, November 2004.

SPECIALIZED TRAINING / CONTINUING EDUCATION: CONTINUED

MEA, "PC-Crash Advanced Workshop", Las Vegas, Nevada, March 2005.

Detroit Diesel Training Center, "8876 – DDEC Reports/Data Extraction", Detroit, Michigan, April 2005.

Collision Safety Institute, Jeffery Muttart, "Human Factors: Understanding Driver Response", West Palm Beach, Florida, June 2005.

Cummins Rocky Mountain Training Center, "Insite Version 6 Familiarization", Albuquerque, New Mexico, September 2005.

Wagner Training Institute, "Communication Diagnostics with Cat Electronic Technician", El Paso, Texas, October 2005.

Collision Safety Institute, "CDR Data Analyst Certification Course", North Las Vegas, Nevada, January 2006.

MEA, "Introduction to PC-Crash Workshop", Las Vegas, Nevada, February 2006.

Failure & Damage Analysis, Inc., "Vehicle Fire Engineering Investigation", CD Course, November 2006.

Failure & Damage Analysis, Inc., "Vehicle Accident Engineering Reconstruction", CD Course, November 2006.

SAE, "Highway Vehicle Event Data Recorder Symposium: 2007 Update", Washington, D.C., September 2007.

Failure & Damage Analysis, Inc., "Forensic Engineering, Part 1", DVD Course, December 2008.

Bendix Spicer Foundation Brakes, LLC, "Bendix Air Brake Introductory Class", Ocean City, MD, October 2009.

NAPARS Combined Annual Conference, "Heavy Vehicle Crash Reconstruction", Ocean City, MD, October 2009.

University of Tulsa, CESE, "How to Interpret Commercial Vehicle Event Data Recorders". Tulsa, OK, February 2010.

SAE, "Accessing and Interpreting Heavy Vehicle Event Data Recorders", Charlotte, NC, May 2011

Collision Safety Institute, "CDR Data Analyst Certification Course", Arlington, TX, April 2012.

Faro, "Faro Laser Scanner", El Paso, TX, February 2013

Autodesk University, Las Vegas, NV, December 2013

ARAS360, "ARAS 360 HD Advanced Computer Diagramming and Animation for Incident Reconstruction", Virtual Training, August 2014

Vericom, "Acceleration and Vericom Computer Familiarization for Traffic Accident Investigation", Minneapolis, MN, September 2014

SPECIALIZED TRAINING / CONTINUING EDUCATION: CONTINUED

Faro/ARAS360, "FARO Reality for Crash Reconstruction", Virtual Training, May 2015

Crash Data specialists, LLC, "CDR Analysis and Applications Course", El Paso, TX, October 2015

PC Crash, "Intro to PC Crash", "Vehicle Controls", "Looking at the Results", Virtual Training, November 2015

SunCam, "Horizontal Curve Design to Prevent the Rollover of Heavy Trucks", Online Course, February 2016

SunCam, "Intersection Safety", Online Course, February 2016

SunCam, "Traffic Control Plans", Online Course, February 2016

SAE, "Accessing and Interpreting Heavy Vehicle Event Data Recorders", Oxnard, CA, October 2016

ARC-CSI Crash Conference, Las Vegas, Nevada, June 2017

SAE, "Applying Automotive EDR Data to Traffic Crash Reconstruction", Troy, MI, November 2018

IPTM, "UAV's in Crash Reconstruction (VoD)", Online Course, April 2019

IPTM, "Determining Speed from Gear Position", Online Course, October 2019

IPTM, "Tire Examinations – Tire and Wheel Forensics", Online Course, October 2019

SAE, "Advanced Applications of Heavy Vehicle EDR Data", Oxnard, CA, October 2019

SunCam, "Work Zone Traffic Control", Online Course, July 2020

SunCam, "Forensic Engineering Part A", Online Course, July 2020

SunCam, "Forensic Engineering Part B", Online Course, July 2020

IPTM, "Roadway Evidence (VoD)", Online Course, July 2020

NAPARS Annual Joint Conference, "Investigating Rollover Crashes", Virtual Online Course, October 2020

NAPARS Annual Joint Conference, "GoPro GPX Data Analysis", Virtual Online Course, October 2020

NAPARS Annual Joint Conference, "PRT in Different Crash Types", Virtual Online Course, October 2020

NAPARS Annual Joint Conference, "Obtaining Chip-level Data from Modules", Virtual Online Course, October 2020

NAPARS Annual Joint Conference, "Considering Tires in your Investigation", Virtual Online Course, October 2020

SPECIALIZED TRAINING / CONTINUING EDUCATION: CONTINUED

NAPARS Annual Joint Conference, "Analysis of ECM Data in New Freightliners", Virtual Online Course, October 2020

Input Ace, "iA Operator Certification, Virtual Online Course, December 2020

Input Ace, "iA Examiner Certification, Virtual Online Course, February 2021

Input Ace, 2021 Video Evidence Symposium, Online, March 2021

Lightpoint, "Elevating Collision Reconstruction Analyses with Laser Scanned Exemplars", Virtual Online Seminar, September 2021

Input Ace, "iA Metrologist Certification", Virtual Online Course, November 2021

NAPARS, "Research & Information Sources", Virtual Online Course, October 2022

NAPARS, "Conservation of Momentum", Virtual Online Course, October 2022

NAPARS, "Bendix Pro", Virtual Online Course, November 2022

NAPARS, "Spin Analysis", Virtual Online Course, November 2022

NAPARS, "Vehicle Dynamics", Virtual Online Course, November 2022

Rich Consulting, LLC, "Using Microsoft Excel for Traffic Crash Reconstruction", Virtual Online Course, February 2023

NAPARS, "EDR Update", Virtual Online Course, February 2023

NAPARS, "Aerial Photogrammetry in Crash Reconstruction", Virtual Online Course, March 2023

LECTURER

"Advanced Accident Reconstruction", for State of New Mexico employees, 1990. Taught advanced topics to New Mexico State Police, Farmington City Police, Albuquerque City Police, Santa Fe City Police, Las Cruces City Police, and the New Mexico State Highway & Transportation Department.

"Automobile Accident Reconstruction - Special Topics", continuing education seminar, 1997 West Texas Arson/Fraud Seminar, State Farm Insurance Company, Midland, Texas, 1997.

"Automobile Accident Reconstruction - Special Topics", continuing education seminar, State Farm Insurance Company, El Paso, Texas, February 1998.

"Insurance Industry Litigation Seminar", El Paso, Texas, April 1998.

LECTURER: CONTINUED

“Automobile Accident Reconstruction - Special Topics”, continuing education seminar, Allstate Insurance Company, El Paso, Texas, June 1998.

“Automobile Accident Reconstruction - Special Topics”, continuing education seminar, Allstate Insurance Company, El Paso, Texas, October 1999.

“Automobile Accident Reconstruction - Special Topics”, continuing education seminar, Allstate Insurance Company, Midland, Texas, November 1999.

“Automobile Accident Reconstruction - Special Topics”, continuing education seminar, SW Electric Claims Exchange Conference, Sponsored by El Paso Electric Co., El Paso, Texas, June 2000

“Automobile Accident Reconstruction – Reconstruction Techniques & Special Topics”, continuing education seminar, State Farm Insurance Company, El Paso, TX, June 2000.

“Automobile Accident Reconstruction - Special Topics”, continuing education seminar, Allstate Insurance Company, El Paso, Texas, July 2000.

“Automobile Accident Reconstruction - Special Topics”, continuing education seminar, State Farm Insurance Company, El Paso, Texas, March 2001.

“Automobile Accident Reconstruction - Special Topics II”, continuing education seminar, Allstate Insurance Company, El Paso, Texas, December 2001.

"Black Box Data & Accident Reconstruction, Auto Theft/Keyless Entry," NICB/State Farm 7th Annual Seminar, El Paso, Texas, April 2002.

“Automobile Accident Reconstruction - Special Topics II”, continuing education seminar, Allstate Insurance Company, El Paso, Texas, April 2002.

“Air Bag Modules”, continuing education seminar, Progressive Insurance Company, El Paso, Texas, May, 2002.

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