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RESUME'

JACOB C. BAKER, PE, ACTAR

LICENSES

State of New Mexico Professional Engineer, No. 19724

ACTAR ACCREDITATION

ACTAR Accredited Reconstructionist, Registration #1567. Awarded full accreditation as a Traffic Accident Reconstructionist by the Accreditation Commission for Traffic Accident Reconstruction in recognition of academic achievement, accident specific training, applied experience in the field, and successful completion of the ACTAR full accreditation written and practical examination, October 2004. The only international accrediting body for traffic collision reconstruction. Administered by a Board of Directors comprised of representatives from 24 professional and educational organizations.



EDUCATION

Bachelor of Science, Mechanical Engineering Technology, New Mexico State University, 2002. Minor in Manufacturing.

EXPERIENCE

Evans & Associates, Inc., Accident Reconstruction Specialist, 5/10 – Present. Provide investigation, analysis, and reconstruction services for traffic accidents, equipment and component failures.

TNM Engineering, LLC, Accident Reconstruction Specialist, 11/08 – 5/10. Provide investigation, analysis, and reconstruction services for traffic accidents, equipment and component failures.

TNM Engineering and Accident Reconstruction, Accident Reconstruction Specialist, 8/02 – 11/08. Provide investigation, analysis, and reconstruction services for traffic accidents, equipment and component failures.

Huff's Hytech Auto and 4x4, Mechanic, 1998-2002. Repaired automobiles of all makes and models. Assisted in the building of custom off road vehicles.

Woodsmith Construction, Custom Home Builder, 1995-2002. In charge of day to day construction operations. Built custom homes, decks, patios, garages, cabinets, and an assortment of other custom home projects.

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SPECIALIZED TRAINING AND CONTINUING EDUCATION

“Traffic Accident Reconstruction I” - Northwestern University Traffic Institute, Evanston, Illinois, October 20-31, 2003, 80 hours. Curriculum included vehicle dynamics and Newton's laws, basic statics, heavy truck accident reconstruction, conservation of momentum, energy, crush analysis and speed estimates from damage, marks on the road, driver strategy and tactics, derivation of equations, case presentation, testimony, report writing, exhibits. Case studies included cars, trucks and pedestrians.

“Crash Data Retrieval (CDR) Systems Operator Certification Course” - Collision Safety Institute, El Paso, Texas, November 17-19, 2003, 24 hours. Vetronix Corporation approved training for securing crash data from automotive airbag modules.

“Motorcycle Investigation and Reconstruction” - CA²RS (California Association of Accident Reconstruction Specialists) Annual Seminar, Santa Rosa, California, October 28-30, 2004, 24 hours. Crash tests included controlled collisions of various motorcycles into various locations on multiple cars. Crash test data was used to derive speed from damage equation from crash tests. Lectures included motorcycle design, tire mark interpretation, rider habits, motorcycle brake systems and related physical evidence, helmets and injury, applicable vehicle code laws and motorcycle perception/reaction.

PC Crash Intro-Workshop – Macinnis Engineering, Vancouver, British Columbia, August 23-24, 2005, 16 hours. Curriculum included training on PC Crash simulation software and PC Rect photograph rectification software.

“Communication Diagnostics with Cat Electronic Technician” - Wagner Training Institute, El Paso, Texas, October 4, 2005, 8 hours. Curriculum included downloading and evaluation techniques for Caterpillar ECMs using Caterpillar Electronic Technician software.

“Crash Data Retrieval (CDR) Technician Course” - Collision Safety Institute, El Paso, Texas, September 21, 2009, 8 hours. Curriculum included updated training for securing data from airbag control modules, rollover sensor modules, and powertrain control modules.

“Crash Data Retrieval (CDR) Data Analyst Course” - Collision Safety Institute, El Paso, Texas, September 22-25, 2009, 32 hours. Curriculum included updated training regarding the analysis and interpretation of data from airbag control modules, rollover sensors, and powertrain control modules.

“Advanced Skills For the CDR Technician” - Collision Safety Institute, Seattle, Washington, October 28-30, 2009, 24 hours. Curriculum included interpretation of vehicle wire diagrams, vehicle back power techniques, diagnostic trouble codes and advanced vehicle electronics evaluation.

PROFESSIONAL ORGANIZATIONS

Society of Automotive Engineers (SAE)



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LECTURER

"Air Bag Modules", continuing education seminar, Progressive Insurance Company, May 2004, El Paso, TX.

"Air Bag Modules", NICB/State Farm 10th Annual Seminar, El Paso, TX, 2007.

“Basic Investigation Techniques”, State Farm Estimating Seminar, Irving, TX, May 2008

05/10

