

CURRICULUM VITAE

ALAN D. COULTER

602 S. PERRY LANE
TEMPE, ARIZONA 85281
(480) 966-0143

ASSIGNMENTS AND DUTIES

February 2005 to Present

BioRec, Consulting Expert

Assist in the investigation, analysis and identification of causation factors of traffic collisions as a consulting technical expert. Perform mechanical examination, analysis and evaluation of motor vehicles, on- and off-road and stationary equipment including individual parts, components and/or assemblies. In addition, provide evaluation and analysis of tires, lamps and passenger restraints.

January 2004 to Present

Coulter and Associates, Inc., Senior Analyst

Provide investigation, analysis and identification of causation factors of traffic collisions. Perform mechanical examinations and analysis of motor vehicles, on- and off-road and stationary equipment including individual parts, components and/or assemblies as a technical expert. Provide evaluation and analysis of tires, lamps and passenger restraints in addition to maintenance and operational practices of a motor carrier and/or operator.

October 1993 to December 2003

California Highway Patrol, Border Division Headquarters, Investigator, Border Division Multidisciplinary Accident Investigation Team (MAIT)

Conducted in-depth investigations, analyses and identified causation factors of major traffic collisions as a technical expert. Responsible for conducting in-depth mechanical examinations of involved vehicles and their components in addition to the completion of related reports.

June 1990 to October 1993

California Highway Patrol, Motor Carrier Specialist, Border Division Motor Carrier Safety Unit

Conducted motor carrier fitness evaluations for compliance with administrative regulations relating to safety, maintenance, and operational practices. Evaluated the adequacy of the carrier's preventive maintenance program and record keeping related to driver's hours of service. Made recommendations to motor carriers regarding improvement in procedures and practices. Performed inspections and evaluations of regulated vehicles.

EDUCATION

February 2003 to October 2003

Heavy Duty Transportation Technology, San Diego Miramar College, San Diego, California

Applied Failure Analysis theory and diagnosis and Truck Drive Axle diagnosis and overhaul procedures.

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EDUCATION

October 1980 to June 1981 Universal Technical Institute, Phoenix, Arizona
Heavy truck engine theory, diagnosis and overhaul procedures, in addition to automotive engines, heavy truck mechanics, Allison transmission.

EXPERIENCE

January 1992 to January 1994 Crane Inspector and Mechanic (Sole Proprietor), WorkReady, Oceanside, California

September 1987 to May 1990 Heavy Equipment Mechanic, Cannan-Bart Inc., Capistrano Beach, California

January 1986 to September 1987 Equipment Mechanic, Lash Construction Inc., Santa Barbara, California

October 1981 to June 1987 Drilling Technician and Equipment Mechanic, Shell Western E&P Inc., Bakersfield, California

September 1980 to June 1981 Working Foreman Mechanic, Sun Valley Bus Lines Inc., Phoenix, Arizona

January 1978 to August 1980 Equipment Mechanic and Driver, Melni Bus Service, Santa Barbara, California

SPECIALIZED TRAINING

New Entrant Safety Assurance Process (NESAP), - Certified - October 2003
California Highway Patrol, San Diego, California

Federal Motor Carrier Safety Administration, Cargo Tank and Bulk Packaging - Certified September 2003
California Highway Patrol, San Diego, California

Commercial Vehicle Enforcement - Certified - July 2003
California Highway Patrol, Temecula, California

Total Station Survey System - Certified - February 2001
California Highway Patrol, Sacramento, California

Mobile Crane Operator Safety - Certified - September 2000
California Highway Patrol, Motor Transport Section, Sacramento, California

Certified Instructor Training - Certified - April 2000
California Highway Patrol, Sacramento, California

Commercial Vehicle Tire Analysis - Certified - March 1999
The Goodyear Tire & Rubber Company, Rancho Cucamonga, California

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SPECIALIZED TRAINING

Commercial Vehicle Air Brake and Antilock Brake Systems - August 1998
Allied Signal Bendix, Napa, California

Child Passenger Safety and Restraint - April 1997
Child Passenger Safety Program, San Diego, California

Air Bag Systems - Certified - January 1999
Rear Axles and Drive Shafts - Certified - April 1998
Transmission and Brake Electronics Training - Certified - October 1997
Introduction to Antilock Brake Systems - Certified - September 1997
Delphi Chassis VI Antilock Brake System and Traction Control - Certified - August 1997
Tech 1 Familiarization - Certified - August 1997
Rear wheel Antilock brake systems - Certified - May 1997
Four wheel Antilock brake systems - Certified - May 1997
General Motors Corporation, Burbank, California

Crown Victoria Police Vehicle - Certified - November 1998, (CHP Academy)
Fleet Electrical Systems - Certified - October 1998
Steering Systems - Certified - June 1997
Suspension Systems - Certified - March 1997
Electrical Systems - Certified - October 1996
Truck Air Brakes with Antilock - Certified - May 1995
Supplemental Restraint System/Air Bags - Certified - June 1994
Distributorless Ignition Systems - Certified - April 1994
Ford Motor Company, La Mirada, California

Michelin Tire Damage Seminar - Certified - February 2000
Michelin Tire Damage Seminar - Certified - April 1996
Michelin North American, Inc., Aliso Viejo, California

Brake Maintenance Technical Training Course - Certified - March 1996
Carlisle Motion Control Industries, Chula Vista, California

Automotive Suspension Systems - Credited - May 1994
Automotive Brake Systems - Credited - December 1993
MiraCosta College, Oceanside, California

Anti-Lock Brake Clinic - November 1993
National Automotive Parts Association (NAPA)

Commercial Vehicle Safety Belt - Certified - March 1993
Commercial Vehicle Inspections/Hazardous Material Compliance Inspections - Certified - December 1990
Commercial Vehicle Safety Alliance

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SPECIALIZED TRAINING

Hazardous Materials Compliance and Enforcement Course - Certified - March 1992
Cargo Tank Roadside Inspection Course - Certified - November 1990
U.S. Department of Transportation, Indio, California

All American Rear Engine Chassis Service School - Certified - August 1990
Blue Bird Company, Colton, California

Heavy truck engine theory diagnosis and overhaul procedures, in addition to automotive engines, heavy truck mechanics, Allison transmission - Certificate - June 1981
Universal Technical Institute, Phoenix, Arizona

ACCIDENT INVESTIGATION TRAINING

Commercial Vehicle Standards and Rules - November 2004
Southwestern Association of Technical Accident Investigators (SATAI), San Diego, California

Commercial Vehicle Event Data Recorders - November 2004
Southwestern Association of Technical Accident Investigators (SATAI), San Diego, California

Criminal vs. Civil Investigations, Evidentiary Differences - July 2003
Southwestern Association of Technical Accident Investigators (SATAI), Phoenix, Arizona

Vehicle Mechanical Evaluations - November 2002
Southwestern Association of Technical Accident Investigators (SATAI), San Diego, California

Headlamp Examination - Certified - April 2002
California Criminalistics Institute, Sacramento, California

Vetronix Crash Data Retrieval System - Certified - October 2001
Vetronix Corporation

Field Evidence Technician - Certified - May 2001
MiraCosta College, Carlsbad, California

Grade Crossing Collision Investigation - Certified - February 2000
Burlington Northern Santa Fe Railway, Ben Clark Training Center, Riverside, California

Techniques of Accident Investigation II - Certified - December 1999
California Highway Patrol, Ben Clark Training Center, Riverside, California

Techniques of Accident Investigation I - Certified - October 1999
California Highway Patrol, San Diego, California

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ACCIDENT INVESTIGATION TRAINING

Traffic Collision Photography - Certified - January 1998

University Extension, University of California, Riverside

Interview and Interrogation Course - Certified - September 1997

Federal Bureau of Investigation (FBI), San Diego, California

Vehicle Lamp Analysis in Traffic Collisions - Certified - May 1996

University Extension, University of California, Riverside

Bus Accident Investigation Seminar - Certified - May 1996

U.S. Department of Transportation, Federal Transit Administration, San Francisco, California

Grade Crossing Collision Investigation - Certified - February 1996

Union Pacific Railroad, Sacramento, California

Low Speed/Minor Impact Investigation - July 1996

Southwestern Association of Technical Accident Investigators (SATAI), Phoenix, Arizona

Low Speed Collisions/SRS Air Bags/Motorcycle Accident Investigation - July 1996

Southwestern Association of Technical Accident Investigators (SATAI), Phoenix, Arizona

Low Speed/Staged Collision Investigation - July 1995

Southwestern Association of Technical Accident Investigators (SATAI), Phoenix, Arizona

Staged Collision/Vehicle Crush Profiles - July 1994

Southwestern Association of Technical Accident Investigators (SATAI), Phoenix, Arizona

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ACCIDENT INVESTIGATION EXPERIENCE

Conducted 308 investigations as the primary MAIT investigator and provided assistance in 289 MAIT investigations while assigned to the Border Division Multidisciplinary Accident Investigation Team for the California Highway Patrol and the following agencies:

Beaumont Police Department	Imperial County Sheriff's Department
Brawley Police Department	Indio Police Department
State of California - Cal/OSHA	La Mesa Police Department
Calexico Police Department	Laguna Beach Police Department
Carlsbad Police Department	Oceanside Police Department
Chula Vista Police Department	Orange County Sheriff-Coroner Department
County of San Diego, District Attorney's Office	Murrieta Police Department
County of Riverside, District Attorney's Office	National City Police Department
Corona Police Department	Palm Springs Police Department
Coronado Police Department	Riverside County Sheriff's Department
Desert Hot Springs Police Department	San Diego Police Department
Department of the Treasury, United States Customs	San Diego County Sheriff's Department
Drug Enforcement Administration	Santa Ana Police Department
El Cajon Police Department	Temecula Police Department
Escondido Police Department	United States Marine Corps
Fullerton Police Department	United States Immigration and Naturalization Service
Garberville Police Department	United States Naval Criminal Investigative Service
Imperial County District Attorney's Office	

COURT EXPERIENCE

Qualified as an expert witness, in tire analysis and the mechanical condition of vehicles in both California Municipal and Superior Courts of Imperial County, Orange County, Riverside County, San Bernardino County and San Diego County.

INSTRUCTIONAL EXPERIENCE

November 2004 to Present	Instructor, Safety Reach Consultants, Inc., Provide instruction and training of Refuse Truck Driver Safety and the Commercial Vehicle Safety Alliance (CVSA) "Out-of-Service" mechanical requirements.
November 2004	Guest Lecturer, Southwestern Association of Technical Accident Investigators, Inc. (SATAI) Conference, "Commercial Vehicle Post Collision Mechanical Inspections".
April and May 2004	Guest Lecturer, California Association of Accident Reconstruction Specialist (CA ² RS) Conference, "Passenger Vehicle Post Collision Mechanical Inspections".

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INSTRUCTIONAL EXPERIENCE

February 2004	Key-Note Speaker, Crown Firecoach Enthusiasts Conference, "CHP MAIT Program and Accident Investigation and Reconstruction."
February 2003	Guest Lecturer, San Diego Collision Investigators Association (SDCIA), "Post Collision Vehicle Inspections".
October 2002	Guest Lecturer, California Association of Accident Reconstruction Specialist (CA ² RS) Conference, "Post Collision Inspections".
April 2000 to December 2003	Instructor, California Highway Patrol, " <i>Techniques of Accident Investigation Training II</i> " (TAIT II) Vehicle Mechanical Assessment.
September 1998 to December 2003	Instructor, CHP Officers involved in the inspection and documentation of vehicle mechanical examinations.
January 1997 to December 2003	Instructor, Coastal, Northern, and Inland Division MAIT members on the development and operation of the MAIT program, including but not limited to the inspection and documentation of vehicle mechanical examinations.
January 1995	Consulted with members of the South Carolina Highway Patrol and the South Carolina Department of Public Safety on the development and operation of a MAIT program.
June 1990 to December 2003	Provide Motor Carriers with instruction on compliance with the California Vehicle Code, California Code of Regulations Title 13, Hazards Materials Regulations of the Department of Transportation, 49 Code of Federal Regulations (CFR).

PROFESSIONAL LICENSES

Arizona Private Investigator License #0404011
State of Arizona Motor Vehicle Department, Commercial Driver License
State of California Department of Consumer Affairs, Bureau of Automotive Repair, Brake Adjuster #JC138369-A

PROFESSIONAL PUBLICATIONS

Co-authored, California Highway Patrol "Techniques of Accident Investigation Training II" (TAIT II)

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PROFESSIONAL ASSOCIATIONS

California Association of Accident Reconstruction Specialist (CA²RS)

Society of Automotive Engineers (SAE)

Southwest Association of Technical Accident Investigators (SATAI)