

ACCIDENT RECONSTRUCTION AND ENGINEERING ANALYSIS  
San Antonio, Texas  
830.714.4480

**SCOTT P. ALTMAN, P. E.**

## **EDUCATION**

**The University of Texas at San Antonio: San Antonio, Texas**  
Bachelor of Science Degree in Mechanical Engineering, 1998

**Texas A & M University: College Station, Texas**  
Advanced Traffic Collision Investigation,  
Speed from Yaw Marks, Critical Curve Speed, Work, Kinetic  
Energy, Actual Speed Lost, Laws of Motion, Momentum, Speed  
Equivalent  
Austin, Texas: 1998

WREX 2000: Conference on Reconstruction and Safety on the Highway,  
Trailer Underride, Factors that Affect a Driver's Detection and  
Response Process, Three Full Scale Vehicle to Vehicle Crash Tests  
College Station, Texas: 2000

**Engineering Dynamics Corporation: Beaverton, Oregon**  
Computer Aided Accident Reconstruction utilizing HVE Program,  
EDCRASH, EDSMAC, EDSVS, EDVTS all for HVE  
San Diego, California: 2000

**University of North Florida, Institute of Police Technology & Management**  
Traffic Crash Reconstruction,  
Drag Factors, Perception – Response time to Unexpected Roadway  
Hazards, Friction and Energy Methods for Speed Computations  
Tempe, Arizona: 2001

## **Society of Automotive Engineers (SAE)**

Braking Performance of Heavy Commercial Vehicles,  
Air and Hydraulic Brake Systems Used on Heavy Vehicles, Vehicle  
Dynamics Related to Braking, Brake Testing Procedures and  
Equipment,  
Predicting Vehicle Speeds from Skid Marks, Tractor and Trailer  
Brake System Compatibility, New Developments in Brake  
Inspection and Diagnostic Equipment, Traction Characteristics of  
Truck Tires and How They Differ from Car Tires  
Troy, Michigan: 2002

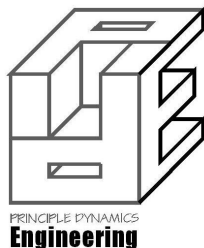
Tire and Wheel Safety Issues,  
Vehicle accident statistics, The role of the tire in accident  
prevention/causation, Tire construction features, Tire failure  
modes, Tire Grip and Related Phenomena, Brake Performance, The  
Tire as a Pressure Vessel, Over-steering Vehicles, Vehicle Rollover  
Analysis  
Detroit, Michigan: 2007

The Tire as a Vehicle Component  
Brief history of tires and wheels, Types of tires, Tire construction  
features, Longitudinal Tire Properties, Lateral Tire Properties,  
Combined Longitudinal and Lateral Forces, The Tire as a Spring,  
Tire and Wheel Non-Uniformities, Future Technological  
Developments, Influences of Tire Properties on Vehicle Response  
Detroit, Michigan: 2007

Vehicle Dynamics for Passenger Cars and Light Trucks  
Vehicle Dynamics, High Speed Steering Dynamics, Braking  
Dynamics, Vehicle Ride Dynamics, Low Speed Steering Dynamics,  
Vehicle Drive-Off Dynamics  
Detroit, Michigan: 2009

## **Association for the Advancement of Automotive Medicine and the University of Miami School of Medicine**

Car Crashes and Occupant Injuries: A Team Approach to Crash  
Investigation,  
Biomechanics and Accident Reconstruction, Crashes by Types:  
Frontal Impacts, Rear Impacts, Side Impacts, Rollovers  
Tempe, Arizona: 2004



## **Texas Association of Accident Reconstruction Specialists**

Factors, Formulae, Forensic and Technology Training  
Nighttime Visibility Studies and Digital Photography, Dynamic  
Truck Tractor Semi Trailer Deceleration Testing, Human Factors,  
Perception Reaction, Vehicle to Vehicle Crash Tests  
Houston, Texas: 2006

## **Collision Safety Institute (CSI)**

CDR Technician Level 1 and Level 2,  
Bosch preferred certified technician training course for the CDR  
System user. Imaging data from vehicles; standard OBD II (“DLC”)  
port, direct to airbag control module (ACM), module location and  
identification, practical booster and adapter applications, “back  
powering” in-vehicle systems to enable DLC data imaging.  
San Antonio & Euless, Texas: 2011

CDR Data Analyst Certification Course  
Insight and analysis of the automobile Event Data Recorder (EDR)  
function or subcomponent. History and evolution, expanded  
interpretation skills of a Bosch Crash Data Retrieval (CDR) System  
report, momentum applications, delta-V and PDOF analysis,  
typical admissibility hearing issues.  
Euless, Texas: 2011

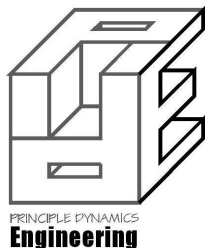
## **EXPERIENCE**

November 2010  
to  
Present

### **PRINCIPLE DYNAMICS ENGINEERING INC. San Antonio, Texas**

**Consulting Engineer** – Conduct technical investigations and  
forensic engineering analysis in the areas of accident  
reconstruction, mechanical failure analysis, product liability  
investigation, vehicle inspection, component testing and  
safety analysis.

Services provided include forensic investigation, engineering  
analysis, technical consultation, photographic and electronic  
mapping documentation, evidence documentation and  
preservation, engineering reports, standards and literature  
research, expert testimony in deposition and trial, and



production of trial and testimony aids such as digrams, maps, charts and courtroom exhibits.

Analyses services have been conducted on matters relative to vehicle and component testing, vehicle rollover dynamics, energy and momentum based speed analysis, computer aided energy & speed analysis.

October, 2006  
to  
November 2010

**VERIFACT CORPORATION**, San Antonio, Texas  
**Forensic Engineer** – Conduct technical investigations and forensic analysis in the areas of accident reconstruction, mechanical failure analysis, product liability investigation, vehicle inspection, component testing, safety analysis and equipment design.

July 1998  
to  
October, 2006

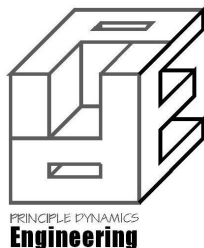
**VERIFACT CORPORATION**, San Antonio, Texas  
**Project Engineer** - Conduct technical investigations in the areas of accident reconstruction, mechanical failure analysis, product liability investigation, vehicle inspection, component testing, safety analysis and equipment design.

October 1996  
To  
July 1998

**CONSOLIDATED SERVICE CO.**, San Antonio, Texas  
**Project Manager** –Directed technical operations of field technicians involved with the installation and construction of heating, ventilation, and air conditioning systems. Analyzed HVAC Systems and consulted with engineers and architects to determine the cause of system mishaps. Verified design and construction requirements with design engineers and city inspectors.

## **ACCREDITATION**

Professional Engineer, State of Texas, 2003, No. 92686,  
Certified by the Texas Board of Professional Engineers



## **PROFESSIONAL MEMBERSHIPS**

Society of Automotive Engineers (SAE)

Southwestern Association Technical Accident investigators (SATAI)

## **TECHNICAL COMMITTEES**

### **Society of Automotive Engineers (SAE)**

Member, Accident Investigation and Reconstruction Practices Committee

## **PUBLICATIONS**

**“A Primer on the Global Positioning System and Its Application in Accident Reconstruction,”** Accident Reconstruction Journal, Steven R. Christoffersen, Scott P. Altman, Jerry G. Wallingford, Bill Greenlees, Verifact Corporation, January/February 2010.

**“A Comparison of Rollover Characteristics for Passenger Cars, Light Duty Trucks and Sport Utility Vehicles,”** SAE Technical Paper 2002-01-0942, Scott Altman, Dean Santistevan, Clarence Hitchings, Jerry G. Wallingford and Bill Greenlees, Verifact Corporation, March, 2002.

## **TECHNICAL PRESENTATIONS**

**“A Comparison of Rollover Characteristics for Passenger Cars, Light Duty Trucks and Sport Utility Vehicles,”** SAE Technical Paper 2002-01-0942, Scott Altman, Dean Santistevan, Clarence Hitchings, Jerry G. Wallingford and Bill Greenlees, Verifact Corporation, March, 2002.

