

# CURRICULUM VITAE

**John H. Painter**

**(Last Update – 4/20/2010)**

## **CONSULTING SERVICES**

**TARAS, Inc.**  
*Traffic Accident Reconstruction, Animation, and Simulation*  
1731 Bent Tree Court  
Granbury, Texas, 76049  
Telephone: (817) 573-0646  
Fax: 817-573-0646  
Incorporated September, 1995

## **PROFESSIONAL CERTIFICATION**

**The Accreditation Commission for Traffic Accident Reconstruction,**  
(ACTAR #564), January, 1994

## **PROFESSIONAL EXPERIENCE**

**National Transportation Safety Board**  
**Highway Accident Investigator/Researcher**  
Central Region, Highway Division  
1200 Copeland Road, Suite 300  
Arlington, Texas 76011

**Aug. 1992**  
**-Sept 1995**

**The National Transportation Safety Board** is an independent government agency with oversight responsibility for both public and private entities having transportation safety responsibilities. Duties: Traffic safety research, the investigation and reconstruction of major highway accidents involving national issues of highway safety, such as: Any school bus accident resulting in death to a student passenger, any commercial bus accident resulting in death or injury to an occupant, heavy truck accidents resulting in two or more fatal injuries or involving issues of driver fatigue, railroad grade crossing accidents, or any accident involving five or more fatalities.

**Special Duties\Expertise:** Computer simulation and accident reconstruction. Technical advisor in Board's Child Occupant Restraint Study, 1994-95. Special investigations including fatal school bus accidents and railroad grade crossing investigations.

**Honors\Awards:** Outstanding Performance Award, 1994, & 1995; Superior Accomplishment Award, for bringing computerized TAR to the NTSB, September 1994; Certificate of Appreciation, NTSB Safety Study, Role of Fatigue in Commercial Vehicle Accidents, November 1995.

**(Professional Experience, continued)**

**Nov. 1990  
-Aug. 1992**                      **Northwestern University Traffic Institute (now The Center for Public Safety) Senior Consultant and Lecturer, Accident Investigation Division**  
405 Church Street, Evanston, Illinois

Served as a consultant and lecturer to law enforcement officials, engineers, attorneys and others in the area of traffic accident reconstruction and police vehicle operation. Responsible for developing and presenting instructional programs, particularly in the area of traffic accident investigation and reconstruction.

**May 1990  
-Nov. 1990**                      **Northwestern University Traffic Institute**  
**Associate Director, Police Training Division**  
405 Church Street, Evanston, Illinois

Responsibilities included: administering on-campus police training courses of limited duration (2 weeks or less); hiring and supervising instructors; determining the training and educational needs of students; planning, developing and scheduling a program to meet those needs; researching and developing courses of study; teaching; counseling students; evaluating and updating current courses.

**Sept. 1987  
-May, 1990**                      **Northwestern University, Traffic Institute**  
**Associate Instructor, Field Services Division**  
405 Church Street, Evanston, Illinois

Responsibilities included: teaching and administering off-campus police training courses of limited duration. Subject areas included: Traffic Accident Investigation, Driving Under the Influence of Alcohol and/or Drugs, Police Supervision.

**July 1979  
-May 1990**                      **Traffic Accident Reconstruction Consultant**  
Boise, Idaho/Port Allegany, Pennsylvania  
Providing consultation services to the legal profession.

**LAW  
ENFORCEMENT  
EXPERIENCE**                      **Boise City Police Department**  
7200 Barrister Drive  
Boise, Idaho  
Dec. 1976 - Oct. 1987

**(Law Enforcement Experience, continued)**

**Aug. 1985  
-Oct. 1987**                    **Patrol Division, Supervisor of DUI Task Force of the Selective Traffic Enforcement Program.** Responsibilities included: Supervision of Accident Reconstruction Specialists, investigation of all nighttime serious injury and fatal traffic accidents, nighttime traffic and DUI enforcement efforts. Investigation of all accidents involving pursuits and police vehicles. Member of Chief's committee on departmental pursuit policy.

**Dec. 1984  
-Aug. 1985**                    **Administrative Support Division, Sergeant in Charge of Boise State University Law Enforcement Services.** Supervision duties included: Training and supervision of officer candidates, staffing and shift assignments, program design and evaluation. Field Training Supervisor.

**Dec. 1976  
-Dec. 1984**                    **Patrol Division,** General patrol duties to include criminal and traffic accident investigations, emergency and tactical response, field training officer and special assignments in DUI public information.

**EDUCATION**                    **Masters in Public Administration,** Public Safety/CJ Emphasis  
August 1991  
Boise State University, Boise, Idaho

**Bachelor of Arts in Criminal Justice Administration,** Aug. 1976  
Park College, Parkville, Missouri  
Honors Graduate: Senior Scholarship Award

**TRAFFIC SAFETY/DUI Administration ENFORCEMENT RELATED ACTIVITIES**                    **Driving Under the Influence Instructor Training**  
Northwestern University/National Highway Traffic Safety  
October, 1985

**Alcohol/Gaze Nystagmus Training**  
Idaho State Police, October 1983

**Idaho Police Officer Standards and Training**  
Certified Instructor: DUI, MOBAT, and Intoximeter

**MEMBERSHIPS**                    Mensa  
Texas Association of Accident Reconstruction Specialists (TAARS)  
National Association of Professional Accident Reconstruction Specialists  
Society of Automotive Engineers (SAE)

## MEMBERSHIPS (continued)

International Association of Chiefs of Police (IACP)  
Association of Professional Law Enforcement Emergency Vehicle  
Response Trainers (ALERT)  
SAE Accident Investigation and Reconstruction Practices Committee  
– Drag Sled Group  
Traffic Response and Safety Research Group  
To conduct, Foster and promote scientific inquiry into human  
conditions, capabilities, traits and behaviors

## OTHER ACTIVITIES IN TRAFFIC SAFETY

**Originator and Co-Chairman, Remove Intoxicated Drivers (RID)** of Idaho. Feb. 1982 - April 1983. Conducted public seminars statewide.

**Successfully lobbied for new DUI laws** during the 1982 and 1983 legislative sessions, including testimony before the House and Senate Judiciary & Rules Committees.

**Guest panelist** on PBS TV program, "The Reporters" and on KIVI-TV, News Watch program-DWI "Deadliest Weapon in America". Nov. 1985.

**Crash Data Collection System Expert Panel**, Calspan, Inc., Buffalo, N.Y., 1996 through 1998. Development of computer based crash data collection system for police accident investigators.

**NUTI DUI/Negligent Homicide Conference** - Guest Speaker: July 1997, 1998, and 1999, Chicago, Topic: *Investigation of School Bus Accidents*.

**NUTI DUI/Negligent Homicide Conference** - Guest Speaker: September 1997, Binghamton, NY. Topic: *Investigation of School Bus Accidents/Computerized Accident Reconstruction*.

**National Association of Licensed Investigators** - Guest Speaker: Mid-Winter Conference, 1998, Arlington, Texas. Topic: *Issues in Police Pursuit Litigation*.

**National Association of State Directors of Pupil Transportation Services** - Guest Speaker, Annual Conference, October 1998, Austin, Texas. Topic: *Investigation of School Bus Accidents - Dangers of Lap Belts*.

## (Other Activities in Traffic Safety - continued)

**National Safety Council - Instructor - Accident Investigation for Truck Fleet and Safety Managers,**  
Chicago Nat'l Safety Council Headquarters and Oil City, PA Spring 90

**Materials Analysis, Inc. - Engineering Consulting Services,** 10338 Miller Road, Dallas, TX. Staff Accident Reconstructionist, Feb- May 1998

**Ford Motor Company - Dearborn, Michigan.** Instructor for Ford Motor Company Design Analysis Engineers, Traffic Accident Reconstruction, June 1992.

**Southeastern States Pupil Transportation 49th Annual Conference,** Guest Speaker, Huntsville, Alabama, *A Comparison of Risk of Occupant Injury in Large v. Small School Buses*, July 1999.

**Texas Association for Pupil Transportation 27th Annual Conference,** Guest Speaker, Fort Worth, Texas, *Understanding the Principles of Occupant Restraint and Injury in Large vs. Small School Buses*, July 2000

**Kentucky Association for Pupil Transportation, Inc., 10<sup>th</sup> Annual Spring Institute,** Bowling Green, Kentucky, *Understanding the Principles of Occupant Restraint and Injury in Large vs. Small School Buses*, April 17, 2001.

**United States Department of Transportation/Federal Highway Administration.** Expert consultant in development of *Expert Systems for Crash Data Collection* computer program, through CALSPAN.

**Federal Motor Carrier Safety Administration.** Expert consultant retained by subcontractor *Accident Research and Analysis* in design of agency Large Truck Crash Causation Study (LTCCS), 1999.

**Federal Motor Carrier Safety Administration.** Expert consultant retained by subcontractor *Accident Research and Analysis* in design of agency Commercial Bus Accident Investigation Program, 2002-2003.

## **PUBLICATIONS:**

*Pavement Friction Reduction Due to Fine-Grained Earth Contaminants*, George J. Hall, Hall Consulting, P.L.L.C.; John Painter, TARAS, Inc. Society of Automotive Engineers International - #2007-01-0736

During his tenure with the National Transportation Safety Board, Mr. Painter participated in several major investigations and published studies involving airbraked vehicles and human factors analysis. Those published investigations included the following:

*Collision of a Small School Bus and Tractor-Semitrailer near Snyder Oklahoma, November 10, 1993.*

*Multiple Vehicle Collision with Fire during Fog, Menifee, AR, January 9, 1995-Special Investigation of Collision Warning Technology.*

*Factors that Affect Fatigue in Heavy Truck Accidents, January 1995.*

In March of 1994, Mr. Painter was selected to design and instruct a three-day training module for all National Transportation Safety Board investigators in support of NTSB safety study:

*#PB96-917005, The Performance and Use of Child Restraint Systems, Seatbelts, and Airbags for Children in Passenger Vehicles.*

While on staff at the Northwestern University Traffic Institute he served as the Associate Director of Police Training, taught courses in Police Supervision, and authored:

*An Administrator's Guide to Police Pursuit Policy.* (available through the Northwestern University Transportation Library)

While on staff at the Northwestern University Traffic Institute, Mr. Painter served as a Senior Consultant and Lecturer, and designed and authored training programs and instructional materials in the area of Traffic Accident Investigation and Traffic Accident Reconstruction. These materials are marketed by the Traffic Institute, and used by training facilities nationwide.

## **Magazine Articles:**

*Evaluating the Safety of Lap Belts on Small School Buses*, School Bus Fleet Magazine, Bobit Publications, September 1999. Article describes Transport Canada school bus crash testing and military crash sled testing of live baboons, both indicating that lap belt restraints in frontal accidents increase the likelihood of severe injury or death.

***Instructional Experience/Traffic Accident Specific Courses:***

Mr. Painter has provided instruction to students from across the nation and many countries that come to the Traffic Institute for discipline specific training. The large number of classes and lectures he has given are too numerous to list, and include field courses in 25 states. However, Mr. Painter has taught all or portions of the following Traffic Institute instructional courses:

- Accident Reconstruction for Traffic Engineers (40 hours)
- Accident Investigation 1 - At-Scene Investigation (80 hours)
- Accident Investigation 2 - Delayed Data Collection (80 hours)
- Vehicle Dynamics (40 hours)
- Traffic Accident Reconstruction 1 (80 hours)
- Traffic Accident Reconstruction 2 (40 hours)
- Heavy Vehicle Crash Reconstruction (40 hours)
- Computerized Traffic Accident Reconstruction 1 - Introduction to EDCRASH (40 hours)
- Microcomputer-Assisted Traffic Accident Reconstruction - EDCRASH (40 hours)
- Computerized Traffic Accident Reconstruction 3 - Introduction to EDSMAC (24 hours)
- Northwestern University Traffic Institute Annual Vehicular Homicide/DWI Conference
- Police Supervision

Mr. Painter has also designed and taught his own 40 hour course of instruction to law enforcement officers in Texas entitled: *Introduction to Energy and Speed from Damage*, under contract with Texas A&M Engineering Extension (TEEX).

### ***Summary of Professional Training:***

The following is a summary of Traffic Accident Reconstruction, Human Factors Analysis, and related training courses completed by Mr. Painter: Certificates of Completion and/or Attendance may be provided upon request (approximately 1652 classroom hours).

#### **Engineering Dynamics Corporation 2010 HVE Forum**

Computer Simulation and Scientific Visualization  
March 1 – 5, 2010, San Antonio, TX (35 hours)

#### **How to Interpret Commercial Vehicle EDR's**

The University of Tulsa, Continuing Engineering and Science Education  
February 22- 26, 2010 (32 hours)

#### **Crash Data Retrieval (CDR) User's Conference**

**Bosch Corporation** "Black Box" download technology-Chrysler and Ford PCM  
January 26 -28, 2009, Houston, Texas (20 hours)

#### **EDC Traffic Accident Simulations (HVE-EDSMAC, EDSVS, EDVTS)**

**Engineering Dynamics Corporation**  
January 5-9, 2009, California State University, Northridge (35 hours)

#### **EDC Traffic Accident Reconstruction (HVE-EDCRASH)**

**Engineering Dynamics Corporation**  
November 10-14, 2008, Coral Gables, FL (35 hours)

#### **Crash Data Retrieval Analyst's Course**

**Bosch Corporation/Collision Safety Institute**  
June 24-27, 2008, New Orleans, LA (32 hours)

#### **Crash Data Retrieval Technician's Course**

**Bosch Corporation/Collision Safety Institute**  
April 18, 2008, Fort Worth, Texas (8 hours)

#### **Crash Data Retrieval (CDR) User's Conference**

**Bosch Corporation** "Black Box" download technology-Chrysler and Ford PCM  
January 28 -30, 2008, Houston, Texas (20 hours)

#### **Factors, Formulae, Forensic Technology Training, and Combined Conference**

Sponsored by TAARS  
Houston, Texas  
September 18 – 21, 2006 (28 hours)

### **Professional Training (continued)**

**Human Factors: Understanding Driver Response**

Instructor/Researcher: Jeffrey Muttart, UMASS

Also participated in Human Factors research – on-the-road study  
Baltimore, Maryland

March 20 – 23, 2006 (28 hours)

**Crash Data Retrieval (CDR) User's Conference 2006**

Ford update

February 13 and 14, 2006 (14 hours), Irving, Texas

**Crash Data Retrieval (CDR) System Operator**

**Vetronix Corporation** “Black Box” download technology

June 9 – 11, 2004, Houston, Texas (24 hours)

**Engineering Dynamics Corporation 2002 HVE Forum**

Computer Simulation and Scientific Visualization

May 13 – 17, 2002, New Orleans, Louisiana (35 hours)

**AutoCad – Computer Drafting**

Sept 23-27, 2002, Fort Worth Texas (20 hours)

And May 6 – 10, 2002, Fort Worth Texas (20 hours)

**Pursuit Seminar for Law Enforcement Driver Trainers**

NHTSA/ALERT International

Included academic and field certification as EVOC Instructor

February 7 – 9, 2001, Dallas, Texas (24 hours)

**Crash Data Retrieval System for Airbag Sensing and Diagnostic Module**

Vetronix Corporation, General Motors Corporation

June 30, 2000, Santa Barbara, California (8 hours)

**Nikon Total Station Forensic Mapping: Theory and Operation**

Nikon Factory Training-Automated Investigation Measurement System

March 1, 2000, Arlington, Texas (8 hours)

**Human Factors in Automobile Accidents**

Lawyers and Judges Publishing Company

February 18 - 19, 2000, Las Vegas, Nevada (16 hours)

**Professional Training (continued)**

**VC2000 Vehicle Performance Computer Data Collection**

Vericom Corporation, Minnetonka, Minnesota  
February 14 - 15, 2000, Plano, Texas (16 hours)

**Work Zone Traffic Control - Design and Operations**

Texas A&M University - Engineering Extension  
August 10 -12, 1999 (24 hrs.)

**Air Brake System Training Seminar**

Allied Signal/Bendix Corporation  
April 30, 1998 (24 hrs.)

**Low Speed Collision Analysis**

Texas A&M University, Engineering Extension Service  
April 24, 1998 (40 hrs.)

**Concept of Day/Night Visibility for Traffic Accident Investigators**

Northwestern University Traffic Institute - Dr. Bernard Abrams  
December 18, 1996 (24 hrs.)

**National Safety Council Defensive Driving Course-Professional Truck Driving**

International Truck Driving School, Waxahachie, Texas  
October 9, 1996 (8 hrs.)

**Applied Physics for Accident Reconstruction**

Texas A&M University, Engineering Extension Service  
June 7, 1996 (40 hrs.)

**Advanced Interviewing Training Program -**

U.S. Department of the Treasury, Fed Law Enforcement Training Center  
January 23, 1995 (40 hours)

**Tractor Trailer Low Speed Impact Testing, TAARS Seminar**

Texas A&M, College Station, TX, November, 1994 (8 hrs.)

**Traffic Accident Computer Animation**

Engineering Animation, Inc, Ames, Iowa, October 1994 (40 hrs.)

**Professional Training (continued)**

**Accident Investigation Techniques/Cause Analysis Training Seminar**  
National Transportation Safety Board, July 1994 (40 hrs.)

**Engineering Dynamics Computer Simulations (EDSMAC, VTS, SVS)**  
University of Miami, Coral Gables, Florida, May 1994 (40 hrs.)

**Child/Occupant Restraint Training**  
National Transportation Safety Board, March 1994 (40 hrs.)

**Commercial Vehicle Accident Investigation**  
Texas A&M University, August 1993 (40 hrs.)

**Eaton Truck Transmission and Axle Training**  
Eaton Training Center, June 1993 (40 hrs.)

**Pedestrian/Bicycle Accident Investigation**  
Texas A&M University, May 1993 (40 hrs.)

**Federal Highway Administration, Roadside Design**  
Austin, Texas, March 1993 (40 hrs.)

**Commercial Vehicle Brake System Training**  
National Transportation Safety Board, October 1992 (24 hrs.)

**Commercial Vehicle Brake Inspection Training**  
National Transportation Safety Board, May, September, and Oct. 1992  
New Jersey, Pennsylvania, and Texas (48 hrs.)

**Introduction to Computer Assisted Drawing**  
Northwestern University Traffic Institute, May 1992 (24 hrs.)

**Microcomputer Applications to Traffic Accident Reconstruction**  
Northwestern University Traffic Institute, October 1990 (40 hrs.)

**Traffic Accident Reconstruction**  
Northwestern University Traffic Institute, June 1988 (80 hrs.)

**Microcomputer Applications for Traffic Accident Reconstruction**  
Northwestern University Traffic Institute, June 1987 (40 hrs.)

**Professional Training (continued)**

**DUI Vehicular Homicide Conference**

Idaho Prosecuting Attorneys Association, Jan. 1987 (16 hrs.)

**Management of a Selective Traffic Enforcement Program**

Institute of Police Technology and Management  
University of North Florida, April, 1986 (40 hrs.)

**Investigation of Motorcycle Accidents**

Institute of Police Technology and Management  
University of North Florida, April, 1986 (40 hrs.)

**Traffic Accident Reconstruction Seminar/Crash Testing**

International Association of Traffic Accident Investigators and Reconstructionists.  
Boise, Idaho, April, 1982. (24 hrs.)

**Traffic Accident Reconstruction**

Institute of Police Traffic Management  
University of N. Florida, April, 1982 (80 hrs.)

**Technical Motor Vehicle Traffic Accident Investigation**

Northwestern University Traffic Institute, June 1979 (120 hrs.)

**At-Scene Traffic Accident Investigation**

Northwestern University Traffic Institute, May 1978 (80 hrs.)