

EXPERT WITNESS SERVICES, INC

FORENSIC RESEARCH LABORATORIES

8387 UNIVERSITY AVE., LA MESA, CA 91941
(619) 464-3477

Daniel William Vomhof III, E.I.T.
Certified Accident Reconstruction Specialist

EXPERIENCE:

Expert Witness Services, Inc.

- (1992-present) - *Accident Reconstructionist.*
- (1984-1992) - *Accident Reconstruction Assoc.*
- (1981-1984) - *Accident Reconstructionist.*
- (1976-1981) - *Technician.*

Primary responsibilities include:

- Evaluation of traffic signal timing related to vehicle, pedestrian, and motorcycle accidents
- Reconstruction of vehicle, pedestrian, and motorcycle accidents
- Evaluation of Pedestrian/Facility/Walking Surface interactions
- Measurement and evaluation of lighting as it affects perception of hazards
- Measurement and evaluation of sound levels
- Documentation of vehicle evidence and scene conditions through photography and measurements
- Preparation of scale scene diagrams and other exhibits for use in depositions, arbitration hearings, and trial.

Additional responsibilities have included:

- Reanalysis of blood and urine samples for alcohol, typing of the blood samples, and review of DUI arrest reports for determination of driving behavior.

4N6XPRT Systems

- (1992-present) - *General Manager/Technical Support/Programmer*

Primary responsibilities include:

- Maintain data and Software Programs available for sale
- Provide Technical Support to program owners
- Provide data to Accident Investigators throughout North America when requested via phone or fax
- Assist in the guidance towards development of new programs
- Provide out of office marketing

Coleman College - General Education

- (1994-1996) - *Adjunct Faculty.*

Provide instruction in College Algebra and Statistics at the undergraduate level.

City of La Mesa - Traffic Engineering
(1988-1992) - *Engineering Technician I.*

Primary responsibilities in the field included preparation, review, and inspection of traffic control plans; preparation of striping, signing, and traffic signal plans and layouts for the field crews; traffic signal system coordination; field changes to traffic signal timing plans; and determination of proper sign type and placement to remedy existing traffic problems.

Primary responsibilities in the office included monthly review of accident reports for possible conditions contributing to the accidents which would be correctable by engineering projects; preparation of individual and system traffic signal timing plans; preparation of staff reports and exhibits for public hearings; and presentation of staff reports at public hearings.

Further responsibilities included supervising and conducting speed zone certification studies, traffic signal and stop sign warrant studies, delay studies, parking studies, intersection movement studies, flow and capacity studies, and line-of-sight studies.

Williamson Engineering
(1987-1988) - *Computer Systems Manager.*

Primarily responsible for entering, developing, and maintaining computerized survey points and providing radial stakeout information to the survey crews. Further responsibilities included design modifications to improvement plans as required to fit existing field conditions and conducting map record research for new projects.

Head chained and ran a Total Station for construction staking.

PROFESSIONAL CERTIFICATION:

Engineering E.I.T. Registration #XE088556, 1993

Accredited Traffic Accident Reconstructionist, The Accreditation Commission for Traffic Accident Reconstruction, Registration #484, 1993

Certified Accident Reconstruction Specialist - Institute of Police Traffic Management, 1983

Diplomate Board Certified Forensic Examiner, American Board of Forensic Examiners #3461, 1996

EDUCATION:National University

B. S. Engineering	July 1994
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Mesa College

A. S. Engineering	June 1992
Engineering Certificate	June 1991

Cuyamaca College

A. S. Surveying	August 1986
Surveying Certificate	June 1986

ACCIDENT SPECIFIC EDUCATION

(1,558+ Hrs)

"Pennsylvania State Police Collision Reconstruction Seminar", State College, PA	9/29-10/1/09
"ARC-CSI Crash Conference 2009" Las Vegas, NV	6/1-4/09
"Special Problems in Accident Reconstruction", Institute of Police Traffic Management - University of North Florida	4/09
"Tenth Southeastern Collision Reconstruction Conference", N. Charleston, SC	7/20-24/08
"ARC-CSI Crash Conference 2008" Las Vegas, NV	6/2-5/08
"Special Problems in Accident Reconstruction", Institute of Police Traffic Management - University of North Florida	4/21-25/08
"21'st Annual Illinois Association of Technical Accident Investigators Conference", Bloomington, IL	9/19-21/07
"Ninth Southeastern Collision Reconstruction Conference", N. Charleston, SC	7/22-26/07
"ARC-CSI Crash Conference 2007" Las Vegas, NV	6/4-7/07
"21'st Annual Meeting and Training Seminar - Midwest Association of Technical Accident Investigators", Minneapolis, MN	5/16-18/07
"Special Problems in Accident Reconstruction", Institute of Police Traffic Management - University of North Florida	4/23-27/07
"F³T² - Factors, Formulae, Forensic Technology Training", Combined Conference, Houston, TX	9/18-21/06
"20'th Annual Illinois Association of Technical Accident Investigators Conference", Bloomington, IL	9/6-8/06
"20'th Annual Meeting and Training Seminar - Midwest Association of Technical Accident Investigators", Kansas City, MO	6/12-15/06
"ARC-CSI Crash Conference 2006" Las Vegas, NV	6/5-8/06

"Special Problems in Accident Reconstruction", Institute of
 Police Traffic Management - University of North Florida 4/24-28/06
**"19'th Annual Illinois Association of Technical Accident
 Investigators Conference"**, Springfield, IL 9/19-21/05
"Seventh Southeastern Collision Reconstruction Conference",
 N. Charleston, SC 7/24-28/05
"ARC-CSI Crash Conference 2005"
 Las Vegas, NV 6/7-10/05
**"18'th Annual Illinois Association of Technical Accident
 Investigators Conference"**, Peoria, IL 9/8-10/04
"Sixth Southeastern Collision Reconstruction Conference",
 Biloxi, MS 7/25-29/04
"ARC-CSI Crash Conference 2004"
 Las Vegas, NV 6/21-24/04
**"Washington Association of Technical Accident Investigators Fall
 Conference"**, Seattle, WA 10/6-9/03
**"17'th Annual Illinois Association of Technical Accident
 Investigators Conference"**, Mt. Vernon, IL 9/10-12/03
"Fifth Southeastern Collision Reconstruction Conference",
 Mt. Pleasant, SC 7/27-31/03
"ARC-CSI Crash Conference 2003"
 Las Vegas, NV 6/9-12/03
**"16'th Annual Illinois Association of Technical Accident
 Investigators Conference"**, Rockford, IL 9/18-20/02
"ARC-CSI Crash Conference 2002",
 Seattle, WA 8/18-21/02
"Fourth Southeastern Collision Reconstruction Conference",
 Mt. Pleasant, SC 6/16-20/02
**"15'th Annual Illinois Association of Technical Accident
 Investigators Conference"**, Danville, IL 9/26-28/01
**"The Vehicle Damage & Energy Relationship in Collision
 Reconstruction"**, Texas A&M Engineering Extension Service,
 Danville, IL 9/24-25/01
"Special Problems in Accident Reconstruction", Institute of
 Police Traffic Management - University of North Florida 4/17-20/01
"WREX 2000 - World Reconstruction Exposition",
 College Station, TX 9/24-29/00
"Special Problems in Accident Reconstruction", Institute of
 Police Traffic Management - University of North Florida 5/1-5/00
**"13'th Annual Illinois Association of Technical Accident
 Investigators Conference"**, Collinsville, IL 9/22-24/99
"Special Problems in Accident Reconstruction", Institute of
 Police Traffic Management - University of North Florida 4/26-30/99
**"CRASH '98 - Conference on Reconstruction And Safety on the
 Highway '98"**, Texas Engineering Extension Service Law Enforcement &
 Security Training Division Texas A&M University System 10/26-30/98
**"Advanced Traffic Accident Reconstruction with the use of
 Microcomputers"**, Institute of Police Technology & Management
 - Oxnard, CA 4/8-12/96

- "Pedestrian/Bicyclist Accident Reconstruction"**, Texas Engineering Extension Service, Texas A&M - San Diego, CA 11/13-17/95
- "Discover Factor H"**, Canadian Association of Technical Accident Investigators and Reconstructionists - Mississauga, Ontario, Canada 8/18-21/94
- "Bio-Mechanics of Accidents"**, Criminal Justice Academy, Texas Engineering Extension Service - Texas A&M 7/25-29/94
- "Concept of Night Visibility for Traffic Accident Investigators"**, Institute of Police Technology & Management - University of North Florida 8/23-27/93
- "Investigation of Pedestrian Accidents and Human Factors"**, Institute of Police Technology & Management - Tempe, AZ 7/20-24/92
- "Bicycle Law Enforcement Seminar"**, Institute of Police Traffic Management - University of North Florida 6/6-7/85
- "Special Problems in Accident Reconstruction"**, Institute of Police Traffic Management - University of North Florida 4/9-12/85
- "Workshop on the Investigation of Motorcycle Accidents"**, Institute of Police Traffic Management - University of North Florida 8/7-9/84
- "Special Problems in Traffic Accident Reconstruction"**, Institute of Police Traffic Management - University of North Florida 4/8-11/84
- "Tire Forensics for the Accident Investigator"**, Institute of Police Traffic Management - University of North Florida 2/6-8/84
- "Traffic Accident Reconstruction"**, Institute of Police Traffic Management - University of North Florida 2/21-3/4/83
- "Advanced Traffic Accident Investigation"**, Institute of Police Traffic Management - University of North Florida 2/7-18/83
- "At-Scene Traffic Accident Investigation"**, Institute of Police Traffic Management - University of North Florida 1/24-2/4/83

- Southwestern Association of Technical Accident Investigators
- * Meeting - Various Acc. Investigation/Reconstruction Topics/
Stiffness Value Research and Calculation* 11/09
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 7/09
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 3/09
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 11/08
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 7/08
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 3/08
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 11/07
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 7/07
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 3/07
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 11/06
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 7/06
 - * Meeting - Various Acc. Investigation/Reconstruction Topics 3/06
 - * Meeting - Various Topics/**Overview of 4N6XPRT Software features and measurement procedures for Expert AutoStats®*** 11/05
 - * Meeting - Crash Testing/**Crash Formulas Applicability*** 7/05

* Meeting - Bicycle/Pedestrian Crash Reconstruction	3/05
* Meeting - Commercial Vehicles	11/04
* Meeting - Crash Testing/CDR	7/04
* Meeting - Math in Traffic Crash Reconstruction	3/04
* Meeting - Visibility/Friction Testing	11/03
* Meeting - Various Acc. Investigation/Reconstruction Topics	7/03
* Meeting - Various Acc. Investigation/Reconstruction Topics	3/03
* Meeting - Vehicle Examination/Work Zones/ITS/ NHTSA Data*	11/02
* Meeting - Vehicle Rollovers	7/02
* Meeting - Human Factors/Brake Performance/Vehicle Spin	3/02
* Meeting - Airbags/CDR/Brake Failure	11/01
* Meeting - Vehicle Rollovers	7/01
* Meeting - Pole Impacts	3/01
* Meeting - Various Acc. Investigation/Reconstruction Topics	11/00
* Meeting - Various Acc. Investigation/Reconstruction Topics	7/00
* Meeting - Various Acc. Investigation/Reconstruction Topics	3/00
* Meeting - Signal Timing* /Pedestrians/Low Speed Accidents	11/99
* Meeting - Various Acc. Investigation/Reconstruction Topics	7/99
* Meeting - Various Acc. Investigation/Reconstruction Topics	3/99
* Meeting - Various Acc. Investigation/Reconstruction Topics	11/98
* Meeting - Various Acc. Investigation/Reconstruction Topics	7/98
* Meeting - Various Acc. Investigation/Reconstruction Topics	3/98
* Meeting - Various Acc. Investigation/Reconstruction Topics	11/97
* Meeting - Various Acc. Investigation/Reconstruction Topics	7/97
* Meeting - Various Acc. Investigation/Reconstruction Topics	3/97
* Meeting - Various Acc. Investigation/Reconstruction Topics	11/96
* Meeting - Various Acc. Investigation/Reconstruction Topics	7/96
* Meeting - Low Speed Investigation, Night Visibility	3/29-30/96
* Meeting - Seatbelts/Airbags, Night Visibility (16 hrs)	12/1-2/95
* Meeting & Low Speed Crash Tests (16 hrs)	7/21-22/95
* Meeting - Automotive Insurance Fraud (16 hrs)	3/17-18/95
* Meeting & School Bus Crash Test (16 hrs)	7/22-23/94
* Meeting & Med. Speed Crash Tests (16 hrs)	3/4-5/94
* Meeting & High Speed Dump Truck Crash Test (16 hrs)	7/16-17/93

* - Invited Presenter

OTHER PROFESSIONAL EDUCATION:

Enforcement Engineering and Education Annual Traffic Safety Training
 Course - California Institute of Transportation Safety - San Diego
 State University
 * Traffic Safety and Liability Analyses (8 hrs) 2002

Institute of Traffic Safety - University of California Berkeley
 * Geometric Design (16 hrs) 1991
 * Human Factors in Highway Design (24 hrs) 1990

American Public Works Association
 * Traffic Engineering Technician Training (8 hrs) 1990

American Construction Inspectors Association
 * Traffic Signals (8 hrs) 1990

University California San Diego - Extension Course
 * Drinking and Driving Another Year Down the Road (8 hrs) 1983

San Diego State University - Summer Course
 * The Effects of Alcohol and Drugs on Driving (16 hrs) 1983

PROFESSIONAL MEMBERSHIP:

- California Society of Professional Engineers - National Society of Professional Engineers #103429978
- Institute of Transportation Engineers #25348
- Society of Automotive Engineers #5557524898
- International Conference of Building Officials #57603-5
- National Association of Traffic Accident Reconstructionists and Investigators
- Southwestern Association of Technical Accident Investigators, Inc.
- Washington Association of Technical Accident Investigators
- Illinois Association of Technical Accident Investigators
- Society of Accident Reconstruction Specialists
- Forensic Consultants Association
- New York Academy of Sciences
- Who's Who Worldwide

FORMER PROFESSIONAL MEMBERSHIP:

- Life Fellow of the College, American College of Forensic Examiners #496
- The National Association of Professional Accident Reconstruction Specialists, Inc.
- South Carolina Association of Accident Reconstruction Specialists
- American Board of Forensic Examiners

SWORN TESTIMONY:

Qualified in San Diego Superior Court on:

- * Traffic Signal timing sequence and "who had the green" issues

Qualified in San Diego, El Cajon, Vista, and Pasadena Superior Courts on:

- *Time-Speed-Distance-Force calculations
- *Speed survey design, conduction, & data analysis
- *Preparation of scale diagrams of roadways
- *Lighting considerations
- *Vehicle and pedestrian paths of travel
- *"Normal" vehicle speeds for an area
- *Human factors - Perception, Reaction, Line-of-Sight
- *Vehicle and Occupant movements
- *Speed from Damage

Qualified in El Cajon Superior Court on:

- *Sound measurement data collection from vehicles
- *Sound measurement interpretation
- *Sound measurement test procedures

Qualified Workman's Compensation Hearing on:

- *Data and evidence collection
- *Data analysis
- *Sampling techniques

Qualified Arbitration Hearing on:

- *Lighting considerations
- *Paths of travel
- *Building Code requirements
- *Human factors - Perception, Reaction, Line-of-Sight

PRESENTATIONS:

- D. W. Vomhof III, *How to Research Stiffness Data and Calculate Stiffness Values*, Southwestern Association of Technical Accident Investigators, November, 2009.
- D. W. Vomhof III, *How to Research Stiffness Data and Calculate Stiffness Values*, Pennsylvania State Police Collision Reconstruction Seminar, September, 2009.
- D. W. Vomhof III, & Gary Stephens, *Basic Crush Measurement Fundamentals and Speed from Crush Calculations*, The Midwest Association of Technical Accident Investigators 20th Annual Meeting, June, 2006.
- D. W. Vomhof III, *Overview of 4N6XPRT Systems Software - Expert AutoStats and 4N6XPRT StifCalcs - Traffic Signal Timing Chart Basics*, The Midwest Association of Technical Accident Investigators 20th Annual Meeting, June, 2006.
- D. W. Vomhof III, Gary Stephens, & Jimmy Starling, *Basic Crush Measurement Fundamentals and Speed from Crush Calculations*, Institute of Police Technology and Management Special Problems in Traffic Accident Investigation, April, 2006.
- D. W. Vomhof III, *Measurement Procedures for Obtaining **Expert AutoStats**[®] Data & Overview of the 4N6XPRT Systems Software Features*, Southwestern Association of Technical Accident Investigators, November, 2005
- D. W. Vomhof III, *Applicability of Crush Analysis Formulas: Use of Crush in Vehicle Accident Reconstruction for the Purpose of Determining Impact Speed*, featured speaker for Southwestern Association of Technical Accident Investigators, July, 2005
- D. W. Vomhof III, *Traffic Signal Timing Basics for the Traffic Accident Investigator or How to tell "Who had the green" ...Maybe*, Fifth Southeastern Collision Reconstruction Conference, July, 2003.
- D. W. Vomhof III, *NHTSA Crash Data: Problems in Obtaining and Using (Summary)*, ARC-CSI Crash Conference 2003, June 2003.
- D. W. Vomhof III, *NHTSA Crash Data: Problems in Obtaining and Using*, Institute of Police Technology and Management Special Problems in Traffic Accident Investigation, April, 2003.
- D. W. Vomhof III, *NHTSA Crash Data: Problems in Obtaining and Using*, Southwestern Association of Technical Accident Investigators, November 2002.
- D. W. Vomhof III, *Traffic Signal Timing Basics for the Traffic Accident*

Investigator or How to tell "Who had the green"Maybe, Illinois Association of Technical Accident Investigators' 15th Annual Traffic Crash Reconstruction Conference, September, 2001.

- D. W. Vomhof III, *Traffic Signal Timing Basics for the Traffic Accident Investigator*, World Reconstruction Exposition 2000, September, 2000.
- D. W. Vomhof III, *Basic Signal Timing for the Accident Investigator or How to tell who had the green....MAYBE*, The Southwestern Association of Technical Accident Investigators Fall 1999 Conference, November, 1999.
- D. W. Vomhof III, *Applying A-B-G and Crush Factor Values to the Evaluation of Impact Speed from Crush Damage for Frontal Crush to the 1989-1996 Ford Thunderbird*, Conference on Reconstruction And Safety on the Highway '98, October 1998
- D. W. Vomhof III, *Liability Issues Involving Traffic Signals*, Traffic Signal Association - Central Valley Chapter, August, 1993.
- D. W. Vomhof III* & D.W. Vomhof, Ph.D., *Liability Issues Involving Traffic Signals*, Traffic Signal Association, Inc., May, 1993.

PUBLICATIONS:

- D. W. Vomhof III, **Kinetic Energy Equivalent Speed**, First Contact Vol 7 Issue 1 (2002).
- D. W. Vomhof III, **Applying A-B-G and Crush Factor Values to the Evaluation of Impact Speed from Crush Damage for Frontal Crush to the 1989-1996 Ford Thunderbird**, CRASH'98 (1998).
- D. W. Vomhof III, **Forensic Software for Vehicle Accident Investigation and Evidence Evaluation**, Peace Officers' Digest 911 (1994).
- D. W. Vomhof III, **4N6XPRT Systems: Forensic Software for Vehicle Evidence Evaluation**, New Mexico Law Enforcement Journal (1994).

Computer Software Programs Developed and Maintained:

- D.W. Vomhof III, D. W. Vomhof, and S. Young, 4N6XPRT StifCalcs, 4N6XPRT SYSTEMS, La Mesa, CA (2007-2009)
- D.W. Vomhof III and D. W. Vomhof, Expert AutoStats, 4N6XPRT SYSTEMS, La Mesa, CA (1993-2009)
- D.W. Vomhof, D. W. Vomhof III, and S. Young, Expert VIN DeCoder, 4N6XPRT SYSTEMS, La Mesa, CA (2007-2009)
- D.W. Vomhof III, D. W. Vomhof, and B. Cunningham, 4N6XPRT StifCalcs, 4N6XPRT SYSTEMS, La Mesa, CA (2003-2006)
- D.W. Vomhof and D. W. Vomhof III, 4N6XPRT Ped & Bike Calcs, 4N6XPRT SYSTEMS, La Mesa, CA (1996)
- D.W. Vomhof and D. W. Vomhof III, Expert VIN DeCoder, 4N6XPRT SYSTEMS, La Mesa, CA (1993, 1994, 1997, 2006)
- D.W. Vomhof, J. Krupocki, and D. W. Vomhof III, Expert AutoStats, 4N6XPRT SYSTEMS, La Mesa, CA (1991, 1992)
- D.W. Vomhof, J. Krupocki, and D. W. Vomhof III, Expert Qwic Calcs, 4N6XPRT SYSTEMS, La Mesa, CA (1991)
- D.W. Vomhof, J. Krupocki, and D. W. Vomhof III, Crashesleuth AutoStats, 4N6XPRT SYSTEMS, La Mesa, CA (1991)
- D.W. Vomhof, J. Krupocki, and D. W. Vomhof III, Crashesleuth Qwic Calcs, 4N6XPRT SYSTEMS, La Mesa, CA (1991)
- D.W. Vomhof, J. Krupocki, and D. W. Vomhof III, Crashesleuth Collision Analysis, 4N6XPRT SYSTEMS, La Mesa, CA (1989)