

CURRICULUM-VITAE

Stephen Alan Irwin
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EDUCATION

University of Texas at Arlington: Arlington, Texas

Bachelor of Science in Civil Engineering

Northwestern University: Evanston, Illinois

At-scene Accident Investigation, May 1989

Technical Accident Investigation, May 1989

Traffic Accident Reconstruction, December 1989

Traffic Accident Reconstruction II, November 1990

Traffic Control Devices, January 1993

Texas A&M University: College Station, Texas

Commercial Vehicle Accident Reconstruction, December 1991

Applied Physics in Accident Reconstruction, July 1994

Motorcycle Accident Reconstruction, February 1995

Conference on Reconstruction and Safety on the Highway, March 1997

Vehicle Trailer Underrides, Low Speed Collisions, Night Vision

Conference on Reconstruction and Safety on the Highway, October 1998

Vehicle Crash Tests, Crash Algorithms and Crush Analysis

Burlington Northern Railroad

Grade Crossing Accident Investigation, November 1990

Texas Association of Accident Reconstruction Specialists

Staged train crossing accident: train and passenger vehicle.

Staged train crossing accident: train and school bus.

Pedestrian and pedacyclist vehicle accident reconstruction.

The Physics and Basics of Photography, Photogrammetry and Digital Cameras

Society of Automotive Engineers

Heavy Vehicle Roll-over, April 1993

American Society of Civil Engineers

HEC II Stream Analysis, 1985

Roadside Design: AASHTO Design Guide, January 1997

Maryland Association of Traffic Accident Investigators

2004 Combined Annual Conference for Collision Reconstruction, October 2004

Collision Safety Institute, Inc.

Crash Data Retrieval System Operator's Certification Course, May, 2005

EXPERIENCE

Current:

Owner: Scientific Analysis, Incorporated

Accident investigation, reconstruction and analysis for passenger and commercial vehicles through employment of engineering and scientific disciplines. Consultation regarding construction and configuration of roadways and their characteristics including: signing, width, condition, curvature, grade, etc. and analysis of their impact on vehicular or industrial accidents. Production of trial and testimony aids such as accident site diagrams, maps, charts, crime scenes, and exhibits.

*May 1988 to
August 1990*

Associate: Accident Reconstruction Lab, Inc.

Investigation and reconstruction of passenger and commercial vehicle and train accidents. Responsible for on site investigation, data collection and subsequent accident site diagrams. Including analysis of vehicle points of perception-reaction, impact, and rest. Assisted in the analysis of over 150 vehicle accidents including all calculations of those properties vital to accident reconstruction.

*May 1986 to
May 1988*

Project Manager: G.D.I. and Associates

Street and Highway engineering design company. Responsible for the production of roadway construction documents. Design of roadway configuration parameters such as horizontal and vertical alignments, to be in accordance with federal, state and local requirements.

*Feb. 1984 to
May 1986*

Project Engineer: Graham Associates Inc.

Street and Highway engineering design company. Assisted project manager in the production of roadway construction documents. Additional work included on-site inspection of the construction of one mile of roadway in Arlington, Texas including pavement and drainage facilities, water and sewer utilities. Responsible for contractor supervision, insuring the adherence to the construction documents and to the City of Arlington standards. As well as resolving design conflicts.

INSTRUCTION AND SPEECHES PRESENTED

1. National Transportation Safety Board
“The Use of Total Stations on Accident Scenes”
2. Texas Association of Accident Reconstruction Specialists
“The Physics and Basics of Photography, Photogrammetry and Digital Cameras”
3. Society of Automotive Engineers
“Accident Reconstruction Using Conservation of Momentum and Energy”
4. Texas Department of Insurance, Course Number 17619CA030
“Physics, Facts and Video Tape”
5. 81st Annual Kansas Transportation Engineering Conference
“Computer Animation of Traffic Accidents”
6. National Association of County Engineers: National Conference 2000
“Computer Animation of Traffic Accidents”
7. Philadelphia Trial Lawyer’s Association
“Accident Investigation and Reconstruction”
8. Washington Association of Accident Reconstructionists and Texas Association of Accident Reconstruction Specialists
“Computer Generated Measurement and Mapping of Accident Scenes”
9. National Association of Legal Investigators
“Computer Generated Measurement and Mapping of Accident Scenes”
10. Bucks County Bench/Bar Conference
“Accident Investigation and Computer Generated Measurements”
11. Canadian Insurance Claims Managers Association
“Computer Generated Measurement and Mapping of Accident Scenes”
12. National Association of Fleet Administrators: New Jersey Chapter
“Accident Reconstruction and Technology”
13. National Association of Fleet Administrators: Pennsylvania Chapter
“Accident Reconstruction and Technology”
14. American Trial Lawyer’s Association (Panel Discussion Group)
“Grade Crossing Accident Investigation and Reconstruction”
15. American Road and Transportation Builders Association
“Accident Investigation and Reconstruction in Work Zones”
16. American Society of Mechanical Engineers
“Accident Reconstruction”
17. Texas Trial Lawyers Association
“Low Speed Accident Reconstruction”
18. Texas Bar Association
“Accident Reconstruction and Physical Evidence”

19. Society of Automotive Engineers
"Automobile Accident Reconstruction"
20. Oklahoma Society of Land Surveyors – 33rd Annual Conference
"The Use of Total Stations on Accident Scenes"
21. Texas Criminal Defense Lawyers Association
"Accident Reconstruction & Technology"
22. Texas Bar Continuing Legal Education—4th Annual Advanced Expert Witness Course
"Auto Accident Reconstruction Expert: Discussion and Demonstration"
23. The University of Texas at Austin School of Law Continuing Legal Education
"Accident Reconstruction"
24. Texas Independent Insurance Adjusters Association, Continuing Legal Education
"Accident Reconstruction"

AFFILIATIONS

Texas Association of Accident Reconstruction Specialists
National Association of Professional Accident Reconstruction Specialists
New Jersey Association of Accident Reconstructionists
Society of Automotive Engineers
American Congress on Surveying and Mapping
 American Cartographic Association
 National Society of Professional Surveyors
American Society of Civil Engineers
American Society for Photogrammetry and Remote Sensing
American Board of Forensic Examiners

PUBLISHED PAPERS

1. Accident Investigation, Reconstruction Interpretation and the Law 1995
"Accident Scene Measurement With the Total Station, and Animation Evidence Admission"
2. Fourth International Symposium on Railroad-Highway Grade Crossing Research and Safety: The University of Tennessee Transportation Center
"Grade Crossing Accident Investigation and Reconstruction"
3. Lawyers and Judges Publishing - Forensic Investigations
"Accident Investigations"

4. Texas Trial Lawyers Association
“Low Speed Accident Reconstruction”
5. Oklahoma Society of Land Surveyors – 33rd Annual Conference
“The Use of Total Stations on Accident Scenes”

CERTIFICATES

1. State of Illinois
Illinois Local Governmental Law Enforcement Officers Training Board
2. American Board of Forensic Examiners
Diplomate, Board Certified Forensic Examiner, Number 3640
3. New Jersey Association of Accident Reconstructionists
Certified Accident Reconstructionist
4. Collision Safety Intitute, Inc.
Crash Data Retrival Specialist

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