

CURRICULUM-VITAE

Andrew Damien Irwin
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Dallas, Texas 75206
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EDUCATION

The University of Texas, Austin, Texas

Bachelor of Science in Architectural Engineering, May 1988

Northwestern University, Evanston, Illinois

Traffic Accident Investigation I, April 1998

Traffic Accident Reconstruction I, April 1998

Traffic Accident Reconstruction II, April 1998

Texas A&M University, College Station, Texas

Conference on Reconstruction and Safety on the Highway - Vehicle Crash Tests, Crash Algorithms and Crush Analysis, October 1998

Commercial Vehicle Inspection and Collision Investigation, August 1999

Society of Accident Reconstructionists

1998 Annual Conference - Investigation of Accidents Involving Vehicle Fire & Vehicle Fire Demonstration, Daytime/Nighttime Visibility Issues in Accident Investigation, Motorcycle Collision Investigation, Injury Biomechanics in Low Speed Collisions

Engineering Dynamics Corporation

Human, Vehicle, Environment (HVE) Forum, April 1999

EDC Reconstruction, January 2000

The Society of Automotive Engineers

2004 Government/Industry Meeting - Rollover Crashworthiness, Side

Compatibility Crashworthiness, Frontal Compatibility Crashworthiness, Data Applications for Crash Avoidance and Crashworthiness, ITS Crash Avoidance Technologies

Bosch/Vetronix Corporation

Crash Data Retrieval System Operator's Certification Course, July 2004

Crash Data Retrieval System Users Conference, January 2008

Texas Association of Accident Reconstruction Specialists

Cummins, Caterpillar and Detroit Diesel/Mercedes Electronic Control Module Capabilities and Resources Course, June 2005

United States Air Force

Officer Training School, November 1988
Specialized Undergraduate Navigator Training, September 1989
Combat Survival School, October 1989
Lead-In Fighter Training, December 1989
F-111D Weapon Systems Officer Conversion Training, June 1990
Water Survival School, June 1990
F-111F Instructor Weapon Systems Officer Course, October 1992
F-111F Flight Examiner/Evaluator Weapon Systems Officer Upgrade Program, April 1993
Air-Ground Operations School, July 1993
F-15E Weapon Systems Officer Conversion Training, December 1994
Squadron Officers School, February 1995
Arctic Survival School, February 1996
F-15E Functional Check Flight Weapon Systems Officer Upgrade Program, February 1996
F-15E Instructor Weapon Systems Officer Course May 1996
F-15E Flight Examiner/Evaluator Weapon Systems Officer Upgrade Program, December 1996
Supervisor of Flying Upgrade Program, December 1996

North Harris County Community College: Houston, Texas

Automotive Engines I, May 1983

Motorcycle Safety Foundation: Cannon AFB, New Mexico

Motorcycle Rider Safety Basic Course, 1989
Motorcycle Rider Safety Advanced Course, 1991

EXPERIENCE

Current:

Accident Reconstructionist: Scientific Analysis, Inc.

Accident investigation, reconstruction, and analysis for passenger and commercial vehicles through employment of engineering and scientific disciplines. Accident scene and vehicle inspection, photography, and measurement. Production of trial and testimony aids such as accident site diagrams, maps, charts, and crime scene exhibits. Deposition and trial testimony.

*November 1988 to
December 1997*

Professional Military Officer: The United States Air Force
Combat Mission Ready aircrew in the F-111D, F-111F, and F-15E fighter aircraft. Responsible for world-wide deployment and employment of U.S. Air Force fighter aircraft. Responsible for the direct employment of air to ground and air to air weaponry. Instructor responsibilities included academic, simulator, and in-flight instruction on operation and employment of the F-111F and F-15E. Flight Examiner responsibilities included evaluation and certification of Combat Mission Ready status for all unit assigned aircrew in the F-111F and F-15E. Conducted in-flight testing, evaluation and certification of F-15E aircraft being returned to flying status. Responsible for overseeing daily fighter flying operations for the entire base.

Career Flying Experience: Total Fighter Time: 1496 hours
Combat Time: 126 hours

PRESENTATIONS

“Accident Reconstruction and Air Bag Data”

Allstate Insurance Company, The Woodlands, Texas, June 2003

“Accident Reconstruction & Technology”

Texas Criminal Defense Lawyers Association, Fort Worth, Texas, December 2002

“Accident Reconstruction”

American Academy of Forensic Sciences 54th Annual Conference, Atlanta, GA, February 2002

“Automobile Accident Reconstruction”,

Society of Automotive Engineers, Arlington, Texas, November 2001

“Vehicle Measurement and Damage Analysis Utilizing 3-Dimensional Digitizers”

Texas A&M CRASH 98 Conference, October 1998.

“F-15E Close Air Support Capabilities in Bosnia and Herzegovina”, presented to The Secretary of Defense of the United States of America; the Honorable William J. Perry, Aviano Air Base, Italy, November 1995.

“Close Air Support Operations on the Korean Peninsula”, presented to the Vice Commander of the United Nations Command for The Republic of Korea, the

Chairman of Korean Joint Chiefs of Staff, and the Commanding General of the 2nd Infantry Division (U.S. Army), Camp Red Cloud, Republic of Korea, April 1994.

AWARDS AND DECORATIONS

NATO Medal
Air Medal, with 1st Oak Leaf Cluster (OLC)
Aerial Achievement Medal
Air Force Commendation Medal
Army Commendation Medal
Air Force Outstanding Unit Ribbon, with 2nd OLC
Southwest Asia Service Medal, with 1st OLC
Armed Forces Expeditionary Medal
Combat Readiness Medal, with 2nd OLC
National Defense Service Medal
Air Force Overseas Short Tour Ribbon
Air Force Longevity Service Award Ribbon, with 1st OLC
Small Arms Expert Marksmanship Ribbon
Air Force Training Ribbon
Pacific Air Forces Inspector General Outstanding Performer Citation

AFFILIATIONS

The Society of Automotive Engineers
Texas Association of Accident Reconstruction Specialists