

# **SWOPE RECONSTRUCTION**

**Accident Reconstruction Services  
DUI Consultants**

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## **CURRICULUM VITAE**

**Rick A. Swope**

*Delivered by Swope  
10-7-99 at Cannon  
at 1:00*

### **EDUCATIONAL BACKGROUND:**

University of Miami - Miami, Florida

December, 1995

Masters of Science

Masters in Technology/Engineering

MOT Program, School of Business and Engineering

St. Thomas University - Miami, Florida

May, 1989

Bachelor of Arts, Criminal Justice

Northwestern Traffic Institute - Macomb County Community College, Macomb, Michigan

Basic accident investigation

Techniques, preparing and basic formulas of accident investigation.

Institute of Police Technology and Management, University of North Florida, Jacksonville, Florida

Basic accident investigation

On scene accident investigation; Traffic homicide investigation; basic physics and formulas in accident investigations; interpretation of roadway and vehicle physical evidence; measurements, diagraming and field sketches of the accident scene; accident investigator techniques, accident photography.

Technical Accident Investigation.

Advanced traffic homicide investigation, advanced formulas and physical evidence interpretation; bulb examination; scale diagraming; tire forensics; time/distance equations; photogrammetry in using perspective graphics; statement taking, diagraming of crash information.

#### Accident Reconstruction Specialist

Derivations of speed equations; motorcycle speed estimates; tire forensics; conservation of linear momentum speed estimates; weight shift principals and problems; Newton's Law pertaining to collisions; scale drawings; accident photography; seat belts; occupant kinematics; time/distance equations; physical evidence evaluation and interpretation.

Investigation of pedestrian accidents and human factors.

Car vs. Pedestrian accidents; throw distance formulas; inspection of vehicle; path and travel of pedestrian; photographing/reconstruction of scene.

#### Radar Instructor

Use and operation of radar; radar in court and case law; speed estimates.

#### University of North Florida - Jacksonville, Florida

##### Traffic Accident Photography

Camera and video use; collision scene photography; flash and lighting conditions; court admissibility of photographs.

##### Advanced Accident Reconstruction with Microcomputers

Computer use in accident reconstruction analysis; SLAM, CARS, CRASH programs; conservation of linear momentum; scale diagraming.

##### Commercial Vehicle Accident Investigation

Weight shift problems and principles; commercial vehicle inspection; conservation of linear momentum; trucking laws and requirements.

#### **PROFESSIONAL EXPERIENCE:**

##### Professional Traffic Accident Reconstructionist

Serving the law profession in civil and criminal proceedings since 1986.

##### Consultant to various municipalities

Investigating criminal collisions of a complex nature.

##### Consultant to the Broward State Attorneys Office

Accident reconstruction

##### Consultant to various insurance companies.

Reference opinions of technical nature.

##### Consultant to prosecution and defense attorneys

Criminal cases and civil proceedings for both plaintiff and defendant.

Consultant to training and design companies.

Offering technical input in training programs developed for law enforcement officers.

Expert in Drunk Driving cases.

Involving standardized field sobriety tests and Intoxilyzer 5000 and 5000R.

**PRACTICAL EXPERIENCE:**

United States Army, Military Police - Discharge Honorable, Rank Sergeant  
July 1974 - July 1977

Police Officer - City of Monroe Police Department  
January 2, 1979 to August 24, 1984  
Assigned to Road Patrol Division

Handled and investigated traffic accidents and traffic fatalities.

Deputy Sheriff - Broward County Sheriff's Office, Florida.  
August 27, 1984 - July 27, 1990  
Assigned to Traffic Homicide and DUI Unit.

Accident reconstruction specialist, investigating, reviewing and reconstructing numerous collisions of all types.

Additional assignments included working part time with the Sheriff's Office Training Division with over 1,000 employees attending the Defensive Driving Instruction yearly.

**TEACHING EXPERIENCE & SEMINARS:**

Criminal Justice Institute at Broward County Community College  
Davie, Florida

Driving Instructor

Vehicle Dynamics; skid control and handling; pursuit driving; backing drills; mechanics of vehicle inspections; vehicle use.

First Responder, CPR Instructor

Requirements of CPR by American Heart Association; First on Scene Treatment; practical experience.

Instructor-Criminal Justice Institute of Broward County.

Accident investigation; DUI field sobriety testing; Defensive driving; motor vehicle dynamics of skidding vehicles; First Responder and CPR; traffic direction and control; report writing.

Instructor - Palm Beach Criminal Justice Institute  
Defensive driving

Substitute Teacher - Broward County School Board

Faculty Member/Instructor - Davis Training and Development

On scene accident investigation; traffic homicide investigation; advanced accident investigation; selective traffic enforcement; vehicle testing procedures; inspection of motor vehicles; traffic homicide reporting; accident photography; measuring and diagraming; hit and run investigation procedures; bulb examinations; advanced formulas; and accident reconstruction.

Instructor - Southern Police Institute, Louisville, Kentucky  
Adjunct Faculty Member - Institute of Police Technology & Management,  
Jacksonville, Florida

Instructor- Part-time at Broward Community College Criminal Justice Institute,  
1985 to 1995

Vehicle Crash Testing - Broward County, Florida  
Vehicle Crash Analysis & Interpretation

Anatomy of the Defense of a DUI Case - Miami, Florida  
April 15, 1994

SFST Course - Atlanta, Georgia - The Georgia Bar  
July 29, 30, 1994

Scientific Evidence in DUI Cases - Miami, Florida  
October 20, 21, 1994

Scientific Evidence in DUI Cases - Miami, Florida  
October 27, 28, 1994

Standardized Field Sobriety Testing - Atlanta, Georgia  
December 15 - 17, 1994

Formal Review Hearing and DUI Intoxilyzer 5000, Naples, Florida  
March 30, 1995

DUI Trial Tactics - Biloxi, Mississippi  
April 28, 29, 1995

Trial Tactics in DUI Cases - Atlanta, Georgia  
June 2, 1995

Accident Reconstruction and DUI, Harvard Law School  
July 20 - 22, 1995

Standardized Field Sobriety Testing and Breathalyser Testing - Atlanta, Georgia  
August 18 - 20, 1995

DUI Trial Tactics - Miami, Florida  
September 28, 1995

Advanced Trial Tactics Seminars - "Defending the Drunk Driver - Chicago, Illinois  
November 3, 1995

San Francisco, California - November 10, 1995

Atlanta, Georgia - November 17, 1995

Orlando, Florida - December 1, 1995

Dallas, Texas - December 8, 1995

Field Sobriety Tests, Washington Foundation for Criminal Justice - Seattle, Washington  
February 23 - 25, 1996

Masters in Scientific Evidence in DUI Cases - New Orleans, Louisiana  
May 3, 4, 1996

Accident Reconstruction and Breathalyzer Testing for Hillsborough Association  
of Criminal Defense Attorneys - Tampa, Florida  
May 14, 1996

DUI Breath Testing and the Intoxilyzer 5000 - Miami, Florida  
May 17, 1996

Trial Tactics and Testimony - Public Defenders Seminar - Cannan Valley, West Virginia  
May 26, 1996

Drive to Stay Alive- Traffic Safety Council - Radio talk show, co-speaker with Dr. Rudolph  
Limpert - Park City, Utah  
February, 1997

Intoxilyzer Certification Course - Marietta, Georgia  
April 9, 10, 1997

Breath Testing - Hillsborough County Association Criminal Defense Attorneys -

Tampa, Florida

May 14, 1997

Standardized Field Sobriety Testing Course - Cleveland Bar - Cleveland, Ohio

June 6 - 8, 1997

Field Sobriety and Intoxilyzer - Montana Attorneys' Organization - Butte, Montana

September 5, 6, 1997

Breath Testing and the Intoxilyzer 5000, Breath Test Results - Miami, Florida

October 31, 1997

Breath Testing and the Intoxilyzer 5000 - Palm Beach Criminal Defense Lawyers - West Palm Beach, Florida

June 21, 1998

1999 Masters of DUI - The Florida Bar - Miami, FL

Intoxilyzer 5000 and operation of same.

January 22, 1999

The Art of Winning a DUI Case with Motion Practice

- Miami Lakes, FL

March 12, 1999

Strategies in Handling DUI Cases in Florida - Jacksonville, FL

March 30, 1999

**SEMINARS/WORKSHOPS AND CONTINUING EDUCATION ATTENDED:**

Broward Criminal Justice Institute - Davie, Florida

Presented by Broward Sheriff's Office

Standardized Field Sobriety Testing

National Highway Traffic Safety

Standardized Testing - 21 hour course

Broward Criminal Justice Institute - Davie, Florida

Presented by the Institute of Police Technology and Management,

Jacksonville, Florida

Bicycle Law Enforcement Seminar

Bicycles in Accident; the bicycle rider; reconstructing the bicycle accident.

Presented by the Criminal Justice Institute - Davie, Florida

Breath/Intoxilyzer Course

Operation of the Breath Machine; Intoxilyzer 5000; extrapolation  
Attend yearly update as required by the State of Florida

Institute of Police Technology and Management - Jacksonville, Florida  
Symposium on Alcohol and Drug Enforcement  
Effects of Alcohol; Horizontal Gaze Nystagmus; Extrapolation; the  
Drunken Driver; Accident Reconstruction Principals involving Intoxicated  
Drivers.

Presented at Palm Beach County  
Investigation of seat belts and child restraint systems

Operations of Seat Belts; the child restraint system(s); reconstructing  
The seat belt accident.

Presented at Cape Kennedy, Florida  
Restraining Seminar for Traffic Accident Investigator  
Conservation of Linear Momentum; vectoring; scale diagraming;  
advanced formulas; weight shift.

Peoples Gas Systems - Dade County, Florida  
Gas and fire emergency training.  
Hazards of chemical accidents; symbols on vehicles.

SAE Conference - Detroit, Michigan  
February 25 - 28, 1991  
Braking & anti-lock braking; computer reconstruction and simulation.  
Vehicle dynamics technology and animation.

Engineering Dynamics - University of Miami, Miami, Florida  
November 1991  
EDC simulations

SAE Seminar  
Planning and development of the Saturn automobile

LARM Class - Pittsburgh, Pennsylvania  
November, 1993.

SAE Conference - Detroit, Michigan  
February and March of 1994.  
Accident reconstruction and vehicle dynamics

STAPP - Carcrash Conference - Ft. Lauderdale, FL  
October 31 - November 2, 1994.

SFST Course - Atlanta, Georgia  
August 18 - 20, 1995

1999 SAE Congress  
March 1 - 3, 1999  
Comparison Testing of Bumper Isolators  
Derivation of Mechanisms of Coefficient of Restitution from Crash Testing  
Characteristic of Vehicle Deceleration for Know Hazards  
Crush Energy and Structural Characterization  
Vehicle Crash Severity Assessment in Lateral Pole Impacts  
Computer Generated Trial Exhibits  
An Overview of the Way EDSMAC4 Calculates Delta-V  
Differences between EDVDS and Phase 4  
Side impact simulation  
Accelerations and Speeds of Young Pedestrians  
Seat Belt Survey: Identification and Assessments of non-collision markings  
Pedestrian models  
Tire Disablement's  
Rollover analysis  
Sport Utility Vehicles  
Barrier Speed Information

#### **PUBLICATIONS/TRAINING OUTLINES:**

SWOPE, R.A.: Field Sobriety Test, Part I, DWI Journal Laboratory and Science, June 1993, Volume 6.

SWOPE, R.A.: Field Sobriety Test, Part II, DWI Journal Laboratory and Science, August 1993, Volume 8.

SWOPE, R.A.: Driving Under the Influence of Alcohol: At the scene accident investigation; advance traffic homicide; accident reconstruction, report writing, parking enforcement. Broward Community College Criminal Justice Institute.

SWOPE, R.A.: Intoxilyzer 5000, DWI Journal Law and Science, September, 1995.

REIFF, Robert: Swope, R.A.: Chapter Entitled: Accident Investigation and Reconstruction Drunk Driving and Related offenses, Michie, 1997.

SWOPE, R.A.: Its Okay to Lie as Long as You're the State. Part I. DWI Journal



Law and Science, May, 1998.

SWOPE, R.A.: Its Okay to Lie as Long as You're the State: Part II. DWI Journal  
Law and Science, September, 1998.

**MEMBERSHIPS & ASSOCIATIONS:**

Member of Maryland Association of Traffic Accident Investigators, Inc.

National Association of Traffic Accident Reconstructionists

Society of Automotive Engineers

FAA Society of Automotive Engineers

Broward PBA

Member of Florida High School Activities Association  
Umpire-Baseball; Referee-Football

Certified PADI - Open Water Diver

National Association of Sports Officials

Member TIGHAR

Amateur Softball Association

International Association for Management of Technology (IAMOT)