

**CURRICULUM VITAE**  
**OF**  
**WILLIAM E. PATTERSON**  
**ACTAR #580**

**TRANS-TECH SERVICES**  
**30 SHANNA CT.**  
**NEWNAN, GEORGIA 30265**  
**OFFICE (770) 304-0761**



**William E. Patterson**  
**Trans-Tech Services**  
**30 Shanna Ct.**  
**Newnan, Georgia 30265**  
**Office (770) 304-0761**  
**Fax (770) 304-9681**

## **EXPERIENCE HIGHLIGHTS**

1992 to Present	Trans-Tech Services Newnan, Georgia Accident Reconstruction Specialist Owner/Founder
1990 to 1992	Transport Analysis Professionals Miami, Florida Accident Reconstruction Field Technician
1988 to 1990	Capaletti Bros. Engineering Miami, Florida Safety Department
1983 to 1988	McTyre Trucking Company Miami, Florida Safety Department
1970 to 1983	Florida Highway Patrol Miami, Florida State Trooper
1974 to 1983	Florida Highway Patrol Miami, Florida Traffic Homicide Investigations State Trooper II
1974 to 1983	Florida Highway Patrol Tallahassee, Florida Training Academy State Trooper - Instructor

## **EDUCATION**

2009	M.S. Criminal Justice - Law (thesis) Kaplan University - Summa Cum Laude
2006	B.S.C.J. - Kaplan University - Summa Cum Laude

**2008**

**SOUTHEASTERN COLLISION  
RECONSTRUCTION CONFERENCE**

Atlanta, Georgia

Human Factors

Mechanical Inspections

Time and Distance Studies

Controlled Crash Testing

**2007**

**SOUTHEASTERN COLLISION  
RECONSTRUCTION CONFERENCE**

Charleston, South Carolina

Conspicuity Studies

Perception and Reaction

Forensic Mapping

Controlled Crash Testing

**2006**

**CDR SYSTEM OPERATOR TRAINING SERIES  
SYSTEM TECHNICIAN (8 hr) & DATA ANALYST (24 hr)**

Atlanta, Georgia                      Certification Courses

**2006**

**FACTORS, FORMULAE, FORENSIC TECHNOLOGY  
TRAINING – COMBINED CONFERENCE**

Houston, Texas

Forensic Mapping

Mathematical Analysis & Momentum

Human Factors

Controlled Crash Testing

**2005**

**UNIVERSITY OF NORTH FLORIDA  
INSTITUTE OF POLICE TECHNOLOGY  
AND MANAGEMENT**

Jacksonville, Florida

**Vetronix CDR Tool - User Certification Course**

**2004**

**SOUTHEASTERN COLLISION  
RECONSTRUCTION CONFERENCE**

Biloxi, Mississippi

Human Factors  
Driver Perception  
Photogrammetry  
Vetronix CDR Technology  
Forensic Mapping  
Controlled Crash Testing

**2003**

**SOUTH CAROLINA ACCIDENT  
RECONSTRUCTION CONFERENCE**

Mt. Pleasant, South Carolina

**Fifth Annual Southeastern Collision  
Reconstruction Conference  
S.C.A.R.S. and S.E.A.R.S.**

Momentum Analysis  
Human Factors  
Perception/Reaction Evaluation  
Applied Physics  
Software Applications  
Airbag Restraint Systems  
EDM Evaluation & Analysis  
Controlled Crash Tests

**2001**

**SOUTH CAROLINA ACCIDENT  
RECONSTRUCTION CONFERENCE**

Myrtle Beach, South Carolina

**Third Annual Southeastern Collision  
Reconstruction Conference**

Motorcycle Crash Investigation  
Speed / Energy Relationship  
Traffic Signals  
Occupant Kinematics  
Drag Sleds  
Air Brakes  
Child Restraint Systems  
Controlled Crash Tests

**2000**

**THE TEXAS A&M UNIVERSITY**  
**TEEX LAW ENFORCEMENT AND SECURITY TRAINING**  
College Station, Texas

**WREX 2000 World Reconstruction Exposition**

Critical Speed Analysis  
Braking Analysis - Trucks vs. Automobiles  
Crash Data Retrieval System  
Event Data Record  
Traffic Signal Timing  
Forensic Mapping  
Fundamentals of Crash  
Vehicle Suspension and Steering  
Trailer Underride Factors  
Driver Detection and Response Process  
Motorcycle Barrier Crash Testing  
Coefficient of Friction Testing

**1999**

**SOUTH CAROLINA ACCIDENT**  
**RECONSTRUCTION SPECIALISTS**  
Myrtle Beach, South Carolina

**Second Annual Southeastern Collision**  
**Reconstruction Conference**

Human Factors in Traffic Collision  
Reconstruction Simulations  
Vehicle Examinations - Crush  
Vehicle vs. Pedestrian Issues  
Occupant Kinematics  
Methods of Determining Drag Factor  
Physics of Collisions  
Vector Diagramming  
Steering and Suspension Inspection  
Controlled Crash Tests

**1997**

**THE TEXAS A&M UNIVERSITY**  
**TEEX LAW ENFORCEMENT AND SECURITY TRAINING**  
College Station, Texas

**1997 Conference on Reconstruction  
and Safety on The Highway**

Commercial Vehicle Involved Underride Collisions  
System-Based Energy and Momentum  
Human Subject Testing & Response To  
Low Level Accelerations  
Nighttime Vision and Reaction Time  
When The Coefficient of Restitution Approaches "1"  
Rollover Accidents  
Demonstrative Evidence  
Accident Reconstruction - Special Problems  
Water Related Traffic Accidents  
Vectors  
Commercial Motor Vehicle Driver  
Fatigue and Alertness Study  
Forensic Animation  
Computer Based Training

**1996**

**UNIVERSITY OF NORTH FLORIDA**  
**INSTITUTE OF POLICE TECHNOLOGY AND**  
**MANAGEMENT**  
Jacksonville, Florida

**Pedestrian/Bicycle Accident Reconstruction**

Pedestrian Injury Analysis  
Pedestrian Body Dynamics  
Mathematical Analysis  
Vehicle Damage Analysis  
Physical Evidence At Scene  
Human Factors and Night Visibility  
Field Testing - Crash Test  
Bicycle Drive Systems  
Single Track Vehicle Dynamics  
(40 hours)

1995

**THE TEXAS A & M UNIVERSITY**  
**TEEX LAW ENFORCEMENT AND SECURITY TRAINING**  
College Station, Texas

**Bio-Mechanics For Traffic Accident Reconstruction**

PDOF and Occupant Response  
PDOF and Delta V  
Occupant Kinematics  
Injuries, Blunt and Sharp  
Mechanics of Materials  
Occupant Restraint Systems  
Occupant Restraint Testing (Lab)  
Evidence, Analysis and Documentation  
Forensic Toxicology, Autopsy Reports  
(40 hours)

1994

**TEXAS ASSOCIATION OF ACCIDENT RECONSTRUCTION**  
**SPECIALISTS: S.O.A.R. AND W.A.T.A.I.**  
College Station, Texas

**Combined Training Seminar**

Nighttime Conspicuity and Reaction Testing  
Lane Change Dynamics  
Heavy Vehicle Braking  
Vehicle Stability and Rollover  
Dynamic Skid Tests (Lab)  
(24 hours)

1993

**NORTHWESTERN UNIVERSITY TRAFFIC INSTITUTE**  
Evanston, Illinois

**Traffic Accident Reconstruction II**

Reconstruction of Motorcycle Accidents  
Equations For Uniformity  
Accelerated Motion  
Trigonometry For Accident Reconstruction  
Vector Analysis  
Conservation of Momentum  
Mathematical Solution of Conservation of Momentum  
Occupant Kinematics  
Pedestrian Accident Reconstruction  
Vehicle - Pedestrian Dynamics  
Case Studies and Special Problems  
(40 hours)

**THE TEXAS A & M UNIVERSITY**  
**TEEX LAW ENFORCEMENT AND SECURITY TRAINING**  
College Station, Texas

**Commercial Vehicle Accident Reconstruction, Level 2**

National Transportation Safety Board Study of  
Heavy Vehicle Airbrake Performance  
Braking Efficiency, Heavy Vehicles  
Air Brake System and Components  
Skid Testing of Heavy Vehicles (Lab)  
Weight and Balance, Rollover Equation  
Combined and Singular CG Determination  
Commercial Tire Properties  
Investigation of Driver and Carrier  
Nighttime Conspicuity Studies  
(50 hours)

**NORTHWESTERN UNIVERSITY TRAFFIC INSTITUTE**  
Evanston, Illinois

**Traffic Accident Reconstruction I**

Traffic Accident Reconstruction Methodology  
Driving Strategy and Tactics  
Perception and Reaction Time  
Causes and Contributing Factors  
Mechanics - Formulas and Usage  
Formulas and Derivations  
Gear Position and Speed  
Vehicle Dynamics In Collisions  
Lamp Examination  
Heavy Trucks, Articulated Vehicles  
Conservation of Momentum  
Energy Analysis  
Crush Damage Evaluation and Formulas  
Computers in Accident Reconstruction  
Case Studies and Special Problems  
(80 hours)

**1983**

**U.S. DEPARTMENT OF JUSTICE**  
**DRUG ENFORCEMENT ADMINISTRATION**  
Miami, Florida

**Narcotics and Dangerous Drugs Seminar**

Recognition and Identification  
Human Behavior, Impairment



## **FLORIDA HIGHWAY PATROL**

Tallahassee, Florida

### **Traffic Homicide Investigation**

Skidmark Evidence

Law

Driver Evaluation

Vehicle Examination

Environment Assessment

Physical Evidence

Photography

Mathematical Analysis

Scale Diagraming

Report Writing

(40 hours)

## **FLORIDA HIGHWAY PATROL**

Tallahassee, Florida

### **Advanced Traffic Accident Investigation**

Photography

Mapping and Measurements

Identifying and Recording Physical Evidence

Speed Formulas

Driver Evaluation

Vehicle Evaluation

Report Writing

(40 hours)

**1982**

## **U.S. DEPARTMENT OF TRANSPORTATION**

Miami, Florida

### **Bus Accident Investigation Seminar**

Braking System

Vehicle Dynamics

Turning Characteristics

Speed From Skidmarks

1980

**FLORIDA HIGHWAY PATROL**

Tallahassee, Florida

**Traffic Homicide Investigation**

Driver Evaluation

Vehicle Dynamics

Physical Evidence

Photography

Scene Measurements

Formulas

Scale Diagraming

Law

Toxicology, Medical Examiner

Single Vehicle Events

Case Report Writing

(40 hours)

**FLORIDA HIGHWAY PATROL**

Tallahassee, Florida

**Advanced Accident Investigation**

Photography

Measurements

Physical Evidence Identification

Skid Testing

Skidmark Identification

Speed Formulas

Interviewing Witnesses, Statements

Vehicle Examinations

Driver Assessment

(40 hours)

**1974**

**FLORIDA HIGHWAY PATROL**

Tallahassee, Florida

**Traffic Homicide Investigation**

- Driver and Vehicle Examinations
- Lamp Examination
- Physical Evidence
- Scale Diagraming
- Report Writing
- Law
- Environment Assessment
- Skidmark Classification and Measuring
- Skid Testing
- Formulas For Speed Determination
- Autopsy, Medical Examiner
- Pedestrian Events
- Photography
- Case Report Writing
- (95 hours)

**PUBLIC SAFETY DEPARTMENT, DADE COUNTY**

Miami, Florida

Traffic Accident and Enforcement Program  
(120 hours)

**1970**

**FLORIDA HIGHWAY PATROL**

Tallahassee, Florida

**Florida Highway Patrol Trooper School**

- Traffic Accident Investigation
- Evidence Recognition and Analysis
- Lamp Examination
- Law
- Photography
- Photo Analysis
- Accident Scene Mapping and Measurements
- Skidmark Analysis
- Skid Testing
- Mathematics in Accident Investigation
- Formulas for Speed Determination
- Vehicle Dynamics
- Driver Performance
- Vehicle Examination
- Fatal Traffic Accidents
- Report Writing
- Interviewing and Interrogating
- Witness Evaluation
- Diagraming of Accident Scene
- (160 hours)

## **OTHER CERTIFICATES AND COURSE TRAINING**

Detroit Diesel ECM Download Training & Certification  
Instructors Course - State of Florida & State of Georgia  
Instructor Certification - State of Florida  
P.O.S.T. certification - State of Georgia  
V. A.S.C.A.R. Instructor  
Firearms Instructor Course  
Management Course  
Recruit Academy Instructor and Counselor  
Traffic Homicide Investigation Instructor  
Radar Certification - Operator/Instructor  
U.S. Secret Service - Presidential Security Detail  
Vericom 2000

## **PROFESSIONAL AFFILIATIONS**

Accreditation Commission for Traffic Accident Reconstruction (A.C.T.A.R.)  
National Association of Professional Accident Reconstruction Specialists (N.A.P.A.R.S.)  
Texas Association of Accident Reconstruction Specialists (T.A.A.R.S.)  
Society of Accident Reconstructions (S.O.A.R.)  
South Carolina Accident Reconstruction Specialist (S.C.A.R.S.)  
Southeast Accident Reconstruction Society (S.E.A.R.S.)

## **PROFESSIONAL ACCOMPLISHMENTS**

In 1974, I entered the Traffic Homicide Investigation unit of the Florida Highway Patrol. My duties included reconstructing fatal traffic accidents and departmental events. I also assisted other Troopers with their investigations when reconstruction efforts were needed.

I served on the security detail for President Richard M. Nixon at Key Biscayne, Florida.

I served on security details for two incoming Governors in Tallahassee, Florida.

In 1974, I was selected to participate in a pilot program with the Florida Highway Patrol to study the aspects of utilizing motorcycles to better patrol the interstate system.

My first official public speaking assignment was in 1976. I prepared and presented a detailed speech on Traffic Homicide Investigation to the Greater Miami Insurance Board, Special Project's Meeting.

In 1977, I was assigned to be an instructor and counselor for recruit classes at the Florida Highway Patrol Training Academy in Tallahassee, Florida. My classes varied such as Driving Skills, Accident Investigation, Defensive Tactics, etc.

In 1977, I prepared a lecture on "Reconstruction of Fatal Accidents" that I presented to the Ft. Lauderdale Claims Association in Broward County, Florida.

In 1978, I was selected to be an instructor in the Traffic Homicide Investigation program in Tallahassee, Florida. I continued that assignment for many years, teaching accident reconstruction subjects.

In 1978, I was selected to participate on a panel to evaluate and design a set of guidelines for the Florida Traffic Homicide Investigation Report in Tallahassee, Florida. Our efforts were to replace the existing program with a modern policy that suited the needs of that time period. The product of that panel is in use today by the Department. Many states have adopted it into their fatal investigation units.

In 1979, I entered the Heavy Truck Enforcement unit of the Florida Highway Patrol. My responsibilities included weighing and inspecting heavy trucks. I continued my involvement with the Traffic Homicide unit and training academy as well. I worked in this capacity for two years, studying heavy trucks.

In 1983, I entered the private sector. I was fortunate to work with a trucking firm to analyze their traffic accidents through reconstruction and develop employee training to allow the firm to remain insurable.

In 1988, I was recruited by a self-insured engineering firm to evaluate their fleet program and implement training sessions as necessary to improve safety and reduce losses.

In 1990, continuing my involvement with traffic accident reconstruction, I began work with a forensic engineer, Ken Bynum. My years working under Mr. Bynum's tutelage expanded my knowledge and experience in this field.

In 1993, I was invited to give a presentation on Traffic Accident Reconstruction to the Columbus Claims Adjusters Association meeting in Columbus, Georgia.

In 1994, I passed the Certification Examination of the Accreditation Commission for Traffic Accident Reconstruction. My certification number is 580.

I have testified as an expert witness in Alabama, Florida, Georgia, South Carolina, and West Virginia.

## HONORS AND AWARDS

1970	Official Commendation Captain B.J. Barnett Chief Training Officer Florida Highway Patrol
1971	Personal Commendation Thomas F. Hurney, Regional Director U.S. Department of Justice
1972	Legion of Honor Award Arthur Nardin Dade County, Florida
1972	Official Commendation Colonel J.E. Beach, Director Florida Highway Patrol
1972	Merit Award Major C.C. Reynolds, Deputy Inspector Florida Highway Patrol
1972	Personal Commendation Governor Rubin Askew State of Florida
1972	Outstanding Officer Dade County Chiefs of Police Dade County, Florida
1973	Official Commendation Before The U.S. Congress Honorable Claude Pepper, Congressman 93rd. Congressional Record Washington, D.C.
1976	Personal Commendation Colonel E.W. Jones, Commander North Carolina Highway Patrol
1978	Official Commendation Larry Cotzin Chief of Police Miami Beach Police Department Miami Beach, Florida

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| 1979 | Personal Commendation<br>Governor Bob Graham<br>State of Florida   |
| 1979 | Official Commendation<br>Colonel J.E. Beach, Director<br>Florida Highway Patrol                                  |
| 1980 | Official Commendation<br>Bobby L. Jones, Director<br>Metro-Dade Public Safety Department<br>Dade County, Florida |
| 1981 | Personal Commendation<br>Lt. Governor Wayne Mixson<br>State of Florida   |
| 1982 | Official Commendation<br>Lieutenant E.R. Peterson, Troop Commander<br>Florida Highway Patrol<br>Miami, Florida   |

Academic Honors & Affiliations: Kaplan University Cumulative GPA - 4.0

Lifetime Member - Alpha Beta Kappa

Lifetime Member - Golden Key International Honor Society

## **BILLING PRACTICES**

### **PRINCIPLE RATES**

The basic rate is \$150.00 per hour, plus expenses.

If requested by the client, expedited work is at \$175.00 per hour, plus expenses.

Hours are billed as follows:

Actual hours applied to the case.

Portal to portal if travel involved.

Overnight trips are by hours worked per day.

A \$2500 retainer is requested when deemed necessary by myself.

File analysis is performed at a \$500 minimum rate.

### **COURT APPEARANCES**

Court appearances are billed at normal rate for eight hours, due to scheduling necessity. Travel and standby time is billed with common sense guidelines . . . hours worked in trial preparation, etc.

### **DEPOSITIONS**

This is probably the most difficult area of my practice to get everybody involved to agree upon. The following explains my firm position on this touchy subject.

Normal rate is \$250/hr. If starting after 3 p.m. . . . \$300/hr.

Deposition travel time is portal to portal, normal rate.

Maximum sitting time at deposition is 4 hours, then reschedule if additional time is needed.

#### **Minimum billing time for deposition is 3 hours.**

Under normal conditions, the retaining counsel is responsible for travel time. Opposing counsel is responsible for deposition time. I strongly suggest that both sides agree in advance to simplify matters.

Reading and signing of the deposition is billed to the counsel making the request to do so.

Payment for deposition time is to be made in advance, or at time of sitting . . . no exceptions.



## **TECHNICAL ASSISTANT**

I utilize a technical reconstruction assistant when necessary to perform field work or support tasks. Those services are billed at \$75.00 per hour. My assistant is fully trained with over 10 years of accident investigation experience and advanced schooling in accident reconstruction.

## **EXPENSES**

It is my policy to bill a client for what I consider normal expenses incurred, without getting pre-approval. Some examples are as follow:

Mileage at 60 cents per mile.

Lodging, if overnight stay is necessary.

Meals.

Film, prints, enlargements.

Video cassettes.

Photocopies, reproductions.

Diagram Plots.

Exhibits.

Plane tickets, auto rental, parking fees, etc.

Expenses of unusual nature are discussed with the client in advance before incurrence. **The likelihood of encountering an item such as this is very rare, but worth noting. All expenses are billed to the client at what it costs me. Documentation of any or all expenses is available upon request by the client.**

## **PAYMENT OF INVOICE**

**All invoices are payable upon receipt.** I do not work on a consignment basis. An invoice is **past due after 30 days**. Late charges of 2% per month will be applied immediately and accumulate monthly. Non-payment of invoices will result in my ceasing all work, closing the file, and withdrawing from the case. I will not consider reopening the file after closure.

## **SCHEDULING POLICY**

I am as busy as the other professional is. Please be reasonable when trying to schedule me for appearances or meetings.