

# COOPER BARRETTE CONSULTING, LLC

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## GARY WAYNE COOPER

**PROFESSIONAL**  
1992-

**Traffic Crash Reconstruction Consultant,**  
Cooper Barrette Consulting, LLC, Woodstock, Illinois

Consultant to law enforcement agencies, attorneys, and others in the area of traffic crash investigation and traffic crash reconstruction

Qualified to give expert testimony in traffic crash investigation and traffic crash reconstruction

Responsible for the organization's administrative operation

Research, write, and review technical publications

Develop and present educational programs in traffic crash investigation and traffic crash reconstruction

1990-1992

**Director,** Accident Investigation Division, Northwestern University Traffic Institute (Center for Public Safety), Evanston, IL

Responsible for the supervision of the professional and clerical staff and the administrative operation's of the division

Consultant and expert witness in the area of traffic crash investigation and traffic crash reconstruction

Responsible for researching and writing technical publications

Responsible for developing, presenting and administrating educational programs in traffic crash investigation and traffic crash reconstruction

1984-1990

**Senior Consultant and Lecturer,** Accident Investigation Division, Northwestern University Traffic Institute (Center for Public Safety), Evanston, IL

Consultant and expert witness in the area of traffic crash investigation and traffic crash reconstruction

Responsible for developing and presenting educational programs in traffic crash investigation and traffic crash reconstruction

- 1983 - 84            **Associate Consultant**, Wolf Technical Services, Indianapolis, IN  
 Part-time consultant to attorneys and others in traffic crash reconstruction
- 1979 - 84            **Accident Reconstruction Specialist**, Indiana State Police  
 Provided traffic crash investigation and traffic crash reconstruction services to law enforcement agencies and county prosecutors  
 Served as crash investigation instructor at the Indiana Law Enforcement Academy  
 Enforced traffic and criminal laws of the state of Indiana
- 1976 - 79            **Trooper**, Indiana State Police  
 Enforced traffic and criminal laws of the state of Indiana
- 1975 - 76            **Weighmaster**, Indiana State Police  
 Assisted the Motor Carrier Officer with truck enforcement

**EDUCATION**

- B.S. degree, Mechanical Engineering Technology, Highest Distinction, Purdue University Calumet, Hammond, IN, 1990  
 A.A.S. degree, Supervision, Purdue University Calumet, Hammond, IN, 1990  
 A.A.S. degree, Mechanical Engineering Technology, Distinction, Indiana University Purdue University at Indianapolis, Indianapolis, IN, 1984

**AFFILIATIONS**

- Society of Automotive Engineers  
 Society of Accident Reconstructionists  
 National Association of Professional Accident Reconstruction Specialists  
 Washington Association of Technical Accident Investigators  
 Illinois Association of Technical Accident Investigators  
 Southwest Association of Technical Accident Investigators  
 North Suburban Sports Car Club of the Midwestern Council of Sports Car Clubs

**PROFESSIONAL** Contributing author *Traffic Crash Reconstruction*, 2<sup>nd</sup> ed.  
Evanston: Northwestern University Center for Public Safety, 2010

Chapter 3 - *Mathematics and Physics Review for Traffic Accident Reconstruction*

Chapter 9 - *Momentum Applications in Traffic Accident Reconstruction*

Chapter 10 - *Work, Energy, and Speed from Damage in Traffic Accidents*

Chapter 11 - *Steering Overcorrection in Traffic Accidents*

Chapter 16 - *Derivation of Equations for Traffic Accident Reconstruction*

Teaching experience:

Traffic crash investigation and traffic crash reconstruction for the Indiana Law Enforcement Academy

Introduction to traffic control Vincennes University at Indianapolis

Traffic crash investigation and traffic crash reconstruction Northwestern University Traffic Institute (Center for Public Safety)

Traffic crash investigation and traffic crash reconstruction course development projects:

Vehicle Dynamics

Traffic Accident Reconstruction I and II

Microcomputer Application Programs in Traffic Accident Reconstruction

Accident Investigation 1 and 2

CompTAR 1 and 2 Microcomputer Courses

Other development projects:

Search and Recovery/Rescue Underwater Investigator

AI-CALC computer program

Guest lecturer on traffic crash investigation and traffic crash reconstruction for:

Trucking Industry Defense Association

Iowa Trial Lawyer's Association

Texas Engineering Extension Service, Texas A&M University

Illinois Professional Land Surveyors Association

Marion County Traffic Safety Partnership

Missouri Department of Transportation

Kentucky Prosecutor's Conference

Society of Automotive Engineers

Indiana Continued Legal Education Forum

Indiana Motor Truck Association

Transportation Research Board

Illinois Association of Technical Accident Investigators

Southwest Association of Technical Accident Investigators

ARC-CSI Crash Conference

Canadian Association of Technical Accident Investigators and Reconstructionists

Australasian & South Pacific Association of Collision Investigators

New Zealand Police Crash Investigation Conference

Expert Testimony:

Indiana	Illinois	Kansas	Wisconsin
Iowa	Missouri	Ohio	Pennsylvania

Participant in the National Highway Traffic Safety Administration panel on establishing minimum training criteria for police traffic crash reconstructionists

Contributing author to the Illinois State Traffic Accident Reconstructionist Certification Test

**SPECIAL  
TRAINING**

Northwestern University Center for Public Safety, Crash Data Retrieval Data Analyst, Evanston, IL, 2014

ARC CSI, Houston, TX, Crash Data Retrieval Summit, 2014

Michigan State University Highway Traffic Safety Programs Department of Civil and Environmental Engineering, Lansing, MI, Case Studies with the Event Data Recorder, 2012

ARC CSI, Houston, TX, Crash Data Retrieval Summit, 2012

Northwestern University Center for Public Safety and CSI, Evanston, IL, Crash Data Retrieval System Data Analyst, 2011

Northwestern University Center for Public Safety, Evanston, IL, Advanced Human Factors in Traffic Crash Reconstruction, 2011

ARAS 360 Technologies, Inc., Fishers, IN, ARAS 360 Advanced 3D Computer Diagraming, 2010

Illinois Association of Technical Accident Investigators, Bloomington, IL, Heavy Truck Electronic Control Module Data in Traffic Crash Reconstruction, 2010

Arlington Heights Police Department, Arlington Heights, IL, iWitness Close Range Photogrammetry seminar, 2010

Transportation Safety Institute, Oklahoma City, OK, U.S. DOT Commercial Vehicle Periodic Inspection & Maintenance, 2010

ARC CSI, Houston, TX, Crash Data Retrieval Summit, 2010

Engineering Dynamics Corporation, Orlando, FL, HVE Forum, 2009

CSI Crash Data Retrieval Specialist, Elk Grove, IL, Technician and Data Analyst Courses, 2008

ARC CSI, Houston, TX, Crash Data Retrieval User's Conference, 2007

Engineering Dynamics Corporation, Mesa, AZ, HVE Forum, 2006

Engineering Dynamics Corporation, San Francisco, CA, HVE Forum, 2004

Collision Safety Institute, Chicago, IL, Crash Data Retrieval (CDR)  
System Operator, 2004

Engineering Dynamics Corporation, Las Vegas, NV, HVE Forum, 2003

Collision Safety Institute, Rockford, IL, Crash Data Retrieval (CDR)  
System Operator, 2002

MJC & Associates, Inc., Aurora, IL, MapScenes Software, 2002

Robert McNeel & Associates, Buffalo Grove, IL, Rhino 3D NURBS Modeling,  
2002

Engineering Dynamics Corporation, Santa Fe, NM, HVE Forum, 2001

Society of Automotive Engineers, Troy, MI, Braking Performance of Heavy  
Commercial Vehicles, 2001

Bendix Brake Corporation, Huntington, IN, Heavy Vehicle Braking Systems,  
2001

Skip Barber R/T 2000 Advanced Racing School - Road America, Elkhart Lake,  
WI, 2001

Vericom Computers, Inc., Arlington Heights, IL, Acceleration and VC2000  
Familiarization, 1999

Northwestern University Traffic Institute (Center for Public Safety), Evanston,  
IL, PhotoModeler Pro Basic Training Workshop, DeChant Consulting  
Services, 1999

Skip Barber Racing School - Road America, Elkhart Lake, WI, 1998

Center for Professional Development, College of Engineering, University of  
Michigan, Ann Arbor, MI, Computer Simulation of Vehicle Dynamics, 1997

Northwestern University Traffic Institute (Center for Public Safety), Evanston,  
IL, Concepts of Day/Night Visibility for Traffic Accident Investigation,  
Institute of Vehicular Safety, 1996

Arkansas State University, Off-Campus Programs and Continuing Education,  
Jonesboro, AR, Commercial Vehicle Accident Investigation and  
Reconstruction, 1994

Society of Automotive Engineers, Detroit, MI, Accident Reconstruction  
Photogrammetry Workshop, 1990

Engineering Dynamics Corporation, Detroit, MI, Engineering Dynamics Corporation Simulation, Course, 1990

Society of Automotive Engineers, Detroit, MI, Biomechanics and Human Tolerance, 1988

BMW-Skip Barber Advanced Driving School, Sebring, FL, 1988

College of Engineering, University of Michigan, Ann Arbor, MI, Mechanics of Heavy-Duty Trucks and Truck Combinations, 1987

Bendix Brake Corporation, Elyria, OH, Heavy Vehicle Braking Systems, 1982

Northwestern University Traffic Institute (Center for Public Safety), Evanston, IL:

Traffic Accident Reconstruction, 1981

Technical Accident Investigation, 1981

Traffic Police Administration Course, 1979

At-scene Accident Investigation, 1979

**MILITARY  
SERVICE**

U.S. Navy, 1972 - 1975, Machinist Mate E-4 rating,  
Honorable discharge

**PERSONAL**

Married; two children