

WILLIAM A. VLIET, P.E.

Curriculum Vitae

Mr. Vliet is a licensed Professional Engineer, experienced in traffic and transportation engineering. He has conducted traffic studies; analyzed traffic flows and roadway requirements; and designed roadways and traffic signals. He has designed mitigative roadway improvements associated with site generated development traffic. Mr. Vliet has also been a land surveyor as well as an inspector on traffic control signal and roadway construction projects.

He is an ACTAR Accredited Traffic Accident Reconstructionist, providing accident evidence collection assistance to the Manchester Police Department and accident reconstruction services to private sector clients in both civil and criminal cases. He has provided expert witness testimony in Connecticut and New Jersey.

License/Accreditation

Licensed Professional Engineer
Connecticut, since 1988

Accredited Traffic Accident Reconstructionist
ACTAR, since 1993

Education

Bachelor of Science, Civil Engineering, 1982
University of Hartford, West Hartford, CT

Professional Experience

Vliet & O'Neill, LLC

1998 – Present

Motor Vehicle Crash Reconstruction

- Review case files.
- Conduct on-site investigations.
- Conduct vehicle testing.
- Obtain “Black Box” data from vehicles.
- Reconstruct crashes.
- Analyze driver and pedestrian actions.
- Provide reports.
- Provide diagrams and exhibits.
- Provide 2D and 3D animations and/or simulations.
- Provide expert witness testimony.

Traffic Planning and Engineering

- Assess traffic flow conditions.
- Devise solutions to traffic problems.
- Design geometric modifications and traffic control signals.
- Conduct traffic impact studies for residential and commercial developments.
- Represent clients at Planning & Zoning meetings.

Traffic Consultant to the Town of Manchester, CT (1998 – 2002)

- Review applications to the Planning and Zoning Commission.
- Respond to citizen complaints.
- Design traffic control devices and traffic signals.
- Construction Management.

Manchester Police Department

(Volunteer Position)

1994 – Present

Member of the Accident Reconstruction Team

- Respond to serious and fatal accidents
- Assist with on-scene evidence identification and collection.
- Occasional follow-up reconstruction assistance.

Professional Experience

(continued)

Fuss & O'Neill, Inc.

1985 - 1998

Private Developer Work

- Prepared over 100 traffic impact studies for projects ranging from single family homes to regional shopping malls to University Campuses to Major Pharmaceutical Companies and complex office developments.
- Identified and designed necessary roadway and intersection improvements to mitigate the impact of development traffic. Work included traffic control signal system design.
- Complete applications to local Planning & Zoning Commissions for approvals.
- Represent clients at Planning & Zoning meetings.
- Work with municipal staff members to resolve design issues.
- Oversaw construction activities for designed improvements.

Public Agency Work

Project Manager for ConnDOT closed-loop traffic signal systems.

- Coordinated design work with local officials/Legal Traffic Authorities.
- Provided final design documents in accordance with ConnDOT and MUTCD design guidelines.
- Review design plans for conformance with federal and state design requirements.
- Attend meetings with federal, state and local officials to resolve project issues.

Project Traffic Engineer for ConnDOT Interstate Ramp System modifications.

- Provided traffic engineering volume projections.
- Analyzed future traffic flow conditions.
- Determined lane geometry for future traffic flow conditions.
- Assessed current accident data.
- Presented project information to local officials.

Project Traffic Engineer for Town of Manchester Main Street Reconstruction.

- Assessed and analyzed traffic volume data.
- Determined intersection and corridor geometry for future conditions.
- Designed traffic signal plans and system for corridor intersections.

Professional Experience

(continued)

Consultant Engineer to Town of Southington Planning/Zoning Commission.

- Provided traffic impact review/analysis of development applications.
- Presented review comments to town staff and applicants.
- Presented review findings to the Planning/Zoning Commission.

Motor Vehicle Crash Reconstruction

- Reviewed case files
- Conducted on-site investigations.
- Conducted vehicle testing.
- Obtained “Black Box” data from vehicles
- Reconstructed crashes.
- Analyzed driver and pedestrian actions.
- Provided reports.
- Provided diagrams and exhibits.
- Provided expert witness testimony

Township of Wayne, New Jersey

1983 – 1985

Town Traffic Engineer/Traffic Engineering

- Reviewed all site plan and sub-division development applications.
- Reviewed Traffic impact studies submitted in support of development application approval by the Planning and Zoning Commission.
- Provided planning department staff with comments and recommendations concerning traffic impact associated with the development applications.
- Met with planning department staff, other town staff and the applicant to discuss and resolve traffic issues prior to Planning and Zoning Commission meetings.
- Presented traffic engineering review findings to the Planning and Zoning Commission.
- Implemented a joint review process between the town police department and the traffic engineering office for high accident locations.
- Responded with the town police department to serious and fatal traffic accidents as part of the on-scene evidence collection team.

Professional Experience

(continued)

- Maintained signal timings for all town owned signalized intersections.
- Coordinated all signing, striping and signal maintenance for town roadways.
- Acted as Project Manager for consultant designed transportation projects.
- Coordinated town development and improvement projects with the New Jersey Department of Transportation as required.

County of Passaic, New Jersey

1982 – 1983

Civil Engineer/Civil Engineering

- Worked with the County Engineer and County Traffic Engineer in performing various civil engineering duties.
- Reviewed land development applications affecting county roadways/facilities for traffic and drainage impacts.
- Prepared and presented review comments to county planning department staff and development applicants as required.
- Assisted the County Traffic Engineer concerning maintenance and improvements to signing and striping of county roadways.
- Designed minor structural improvements for county buildings and facilities.

Specialized Training

Highway Safety Evaluation, 1982

Federal Highway Administration

Traffic Control Devices Handbook, 1984

Federal Highway Administration

Accident Investigation, 1984

The Police Academy of Passaic County, New Jersey

Special Problems in Accident Reconstruction, 1985

Institute of Police Technology & Management, University of North Florida

Specialized Training

(continued)

Traffic Signal Design, 1985
Institute of Transportation Engineers

Intersection Traffic Signal Controllers, 1989
Federal Highway Administration

Traffic Accident Reconstruction I, 1992
The Traffic Institute, Northwestern University

Traffic Accident Reconstruction II, 1992
The Traffic Institute, Northwestern University

Intersection Design and Channelization, 1992
The Traffic Institute, Northwestern University

Work Zone Safety, 1994
Technology Transfer Center, University of Connecticut

Microcomputer/Edcrash Accident Reconstruction, 1997
The Traffic Institute, Northwestern University

Acceleration and VC200 Familiarization, 1999
Vericom Computers, Inc.

Inspection and Investigation of Commercial Motor Vehicle Accidents, 1999
Institute of Police Technology and Management, University of North Florida

Traffic Calming, 2000
Center for Public Safety, Northwestern University

Pedestrian/Bicycle Crash Investigation, 2000
Institute of Police Technology and Management, University of North Florida

World Reconstruction Exhibition 2000, 2000
Texas A&M University

Millennium Manual on Uniform Traffic Control Devices Workshop, 2002
Transportation Institute, University of Connecticut

Specialized Training

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Introduction to Event Data Recorders & Crush Documentation, 2002
National Association of Professional Accident Reconstruction Specialists

Joint Annual Conference, 2002
NAPARS, NATARI, NJAAR, MATAI, CSI, NYSTARS, Ocean City, MD

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

Human Vehicle Environment (HVE) Forum, 2004
Engineering Dynamics Corporation

One Day Driving School, 2005
Dodge/Skip Barber Driving School, Lime Rock Park, CT

One Day Racing School, 2006
Dodge/Skip Barber Advanced Driving School, Lime Rock Park, CT

Conservation of Linear Momentum Refresher Course, 2007
SRR Traffic Safety Consulting

Highway Vehicle Event Data Recorder Symposium, 2007
Society of Automotive Engineers

Basic/Advanced Diagramming and 3D Animation, 2007
Visual Statement

ARC-CSI Crash Conference, 2009
Las Vegas, NV

Human Factors for Traffic Accident Reconstruction, 2010
Accident Dynamics Research Center

Advanced 3D Computer Diagramming for Crash Reconstruction, 2011
ARAS 360

Investigating Motorcycle Collisions, 2012
Annual Joint Conference/NYSTARS

Case Presentation – Computer Simulation/Animation
30th Annual CTLA College of Evidence Seminar, 2012

Specialized Training

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Advanced 3D Computer Diagramming for Crash Reconstruction, 2013
ARAS 360 HD

Crash Data Retrieval Data Analyst, 2013
Northwestern University Center for Public Safety

Crush Damage Energy; Memory Formation, 2014
NAPARS Combined Annual Joint Conference

Investigating Motor Vehicle Crashes with Utility Poles and Trees, 2014
SRR Traffic Safety Consulting

World Reconstruction Exhibition 2016
Orlando, Florida

Investigating Pedestrian Collisions, 2018
NYSTARS Combined Annual Joint Conference

Video Analysis, 2019
NJAAR Seminar

FARO Zone Crash, 2019
FARO Zone 3D

Human Factors, 2019
NJAAR Combined Annual Joint Conference

Annual Joint Conference, 2020
NAPARS

Research & Info Sources; Linear Momentum; Bendix Pro; Spin Analysis, 2022
NAPARS

IDRR/Response Software, 2022
Crash Safety Solutions/Driver Research Institute

EDR Update, 2023
NAPARS

Aerial Photogrammetry, 2023
NAPARS

Human Factors in Crash Reconstruction, 2023
NAPARS

World Reconstruction Exposition 2023
Orlando, FL

Ignition Cyclopedia, 2023
NAPARS

Digital Video Analysis, 2023
NAPARS

Speaking/Teaching Activities

Accident Evidence Collection - Instructor (16)
Suhaka & Associates, Inc., 1989-1997

Transportation Engineering/Accident Reconstruction - Lecturer (10)
University of Hartford, 1992-2003

Accident Investigation – Instructor
Bergen County Police Academy, New Jersey, 1993

Speaking/Teaching Activities

(continued)

Accident Litigation Mitigation – Speaker
American Public Works Association, N.E. Chapter Annual Convention, 1995

Accident Evidence Collection – Speaker
American Public Works Association, National Convention, 1996

DPW/Police Partnering in Municipal Vehicle Accident Evidence Collection – Instructor
Transportation Institute, University of Connecticut, 1997

Accident Evidence Collection – Speaker
Connecticut Conference of Municipalities Convention, 1998

Professional Memberships

American Society of Civil Engineers, since 1982

Institute of Transportation Engineers, since 1985

National Association of Professional Accident Reconstruction Specialists, since 1992

Society of Automotive Engineers, since 1992

Society of Accident Reconstructionists, since 1996

Accident Reconstruction Communications Network, 2001 – 2019

The Crash Hub, since 2019