

DANIEL W. O'NEILL, P.E.

Curriculum Vitae

Mr. O'Neill 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 commercial sites and is well versed in municipal and State permitting for site and roadway development. Mr. O'Neill has also been a land surveyor as well as an inspector on 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, New Jersey, and Federal courts, as well as in Antigua & Barbuda, West Indies.

License/Accreditation

Licensed Professional Engineer
Connecticut, since 1990

Accredited Traffic Accident Reconstructionist
ACTAR, since 1996

Associate Engineering Technician
NICET, 1994 - 1999

Education

Bachelor of Science, Civil Engineering, 1985
Union College, Schenectady, NY

Professional Experience

Vliet & O'Neill, LLC

1998 – Present

Motor Vehicle Crash Reconstruction

- Conduct on-site investigations.
- Review case files.
- Conduct vehicle testing.
- Obtain Event Data Recorder data from vehicles.
- Reconstruct crashes.
- Analyze driver and pedestrian actions.
- Provide reports.
- Provide diagrams and exhibits.
- Provide 2D and 3D animations.
- Testify at depositions and trials.

Traffic Planning and Engineering

- Assess traffic flow conditions.
- Devise solutions to traffic problems.
- Design geometric modifications and traffic 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 – 2022

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.

1988 - 1998

Private Developer Work

- Conduct traffic studies to forecast traffic impacts of a development.
- Plan roadway improvements to mitigate traffic impacts.
- Design internal roadways and parking areas.
- Complete applications to local Planning & Zoning Commissions for approvals.
- Represent clients at Planning & Zoning meetings.
- Work with municipal staff members to resolve design issues.
- Design proposed improvements, including traffic signals and geometric improvements.
- Oversee construction activities.

Public Agency Work

Project Manager of the Liaison Group for ConnDOT's Enhancement Program.

- Manage ConnDOT's Enhancement Program.
- Work with Municipalities to ensure compliance with federal funding requirements.
- Assist Municipalities with the design consultant selection process.
- Review design plans for conformance with federal and state design requirements.
- Provide review comments and work with the design consultants to resolve outstanding issues.
- Attend meetings with federal, state and local officials to resolve project issues.

Construction Inspector for municipal projects.

- Observe contractor's work to confirm conformance with specifications.
- Measure quantities and make recommendations for payment.

Accident Reconstruction

- Conduct on-site investigations.
- Review case files.
- Reconstruct crashes.
- Analyze driver and pedestrian actions.
- Provide reports.
- Provide diagrams and exhibits.
- Testify at depositions and trials.

Professional Experience

(continued)

Connecticut Department of Transportation

1985 – 1988

Traffic Engineering

- Design geometric roadway improvements.
- Design traffic signals.
- Inspect newly constructed traffic signals.
- Investigate complaints by the public concerning traffic issues.
- Review consultant's designs of construction signing plans.
- Develop standard construction signing templates.

Specialized Training

Highway Capacity and Quality of Flow, 1987

Federal Highway Administration

Traffic and Transportation Engineering Seminar, 1988

Traffic Institute of Northwestern University

Accident Evidence Collection, 1993

Suhaka and Associates, Inc.

Advanced Traffic Sessions 1 & 2

Transportation Institute, University of Connecticut

Traffic Accident Reconstruction I, 1996

The Traffic Institute of Northwestern University

Traffic Accident Reconstruction II, 1996

The Traffic Institute of Northwestern University

Work Zone Safety, 1997

Technology Transfer Center, University of Connecticut

Acceleration and VC200 Familiarization, 1999

Vericom Computers, Inc.

Specialized Training
(continued)

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 Exposition 2000, 2000
Texas A&M University

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

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

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

Human Vehicle Environment (HVE) Forum, 2004
Engineering Dynamics

One Day Driving School, 2005
Dodge/Skip Barber Racing School

One Day Racing School, 2006
Dodge/Skip Barber Racing School

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

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

Specialized Training
(continued)

ARC-CSI Crash Conference, 2009
ARC-CSI

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

ARAS 360 HD: New Features and Functions, 2013
ARAS 360

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

Crash Damage Energy; Memory Formation, 2014
Combined Annual Conference

Investigating Motor Vehicle Crashes with Utility Poles and Trees, 2014
SRR Training

World Reconstruction Exposition 2016, 2016
Orlando, FL

Investigating Pedestrian Collisions, 2018
Annual Joint Conference

Video Analysis, 2019
NJAAR Seminar

FARO Zone Crash, 2019
FARO Zone 3D

Human Factors, 2019
Annual Joint Conference

Specialized Training
(continued)

Annual Joint Conference, 2020
NAPARS

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

IDRR Software, 2022
Crash Safety Solutions

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

Update on Heavy Vehicle Event Data Recorders, 2023
NAPARS

Probability & Statistics for Crash Reconstructionists, 2023
NAPARS

Monte Carlo Analysis in Accident Reconstruction, 2023
NAPARS

Toyota Systems and Application to Crash Reconstruction, 2024
NAPARS

Speaking/Teaching Activities

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 – Instructor
Passaic County Police Academy, NJ, 1997

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

Professional Memberships

Institute of Transportation Engineers, since 1988

American Society of Civil Engineers, since 1995

Society of Accident Reconstructionists, since 1996

Society of Automotive Engineers, since 1999

Accident Reconstruction Communications Network, 2001-2019

National Association of Professional Accident Reconstruction Specialists, since 2002

The Crash Hub, since 2019