

WILLIAM J. FISCHER, M.S., P.E.**WilliamFischer@FFE-FL.com**

Mr. Fischer is the founder of Fischer Forensic Engineering and is a degreed Civil Engineer with concentration in Transportation Engineering from the University of Central Florida. For more than 22 years Mr. Fischer has been involved in the analysis of vehicular accident reconstruction and investigation, geometric roadway design, traffic engineering/operations, traffic control devices, operator (human) decision/risk factors, risk analysis, work zone standards, and product design-performance/research. Included in Mr. Fischer's professional experience is the operation, handling, and/or component performance of; on and off-road motorcycles, bicycles, commercial vehicles, all-terrain vehicles (ATV), marine and personal watercraft (PWC). He is also actively involved in the development of motorcycle standards.

Areas of Specialization

Accident Reconstruction/Investigation	Civil/Transportation Engineering
Traffic Engineering/Geometric Analysis	Risk Research and Analysis
Work Zone Standardizations	Roadside Analysis
Premise Liability	Motorcycle Operation

Education

Master of Civil Engineering	Bachelor of Science in Engineering
University of Central Florida, 2010	Department of Civil Engineering
Emphasis: Transportation Engineering	University of Central Florida, 2001

Licensed Professional Engineer (P.E.)

2007
Florida (66451)

Professional Affiliations

Society of Automotive Engineers (SAE) - Motorcycle Technical Steering Committee

Florida Engineering Society (FES)

Institute of Transportation Engineers (ITE)

American Society of Civil Engineers (ASCE)

Accreditation Commission of Traffic Accident Reconstruction (ACTAR)

Motorcycle Safety Foundation (MSF) Certified Rider-Coach

Transportation Research Board Roadside Safety Design Committee

Transportation Research Board Bicycle Transportation Committee

Transportation Research Board Motorcycle & Moped Committee

Positions Held

Fischer Forensic Engineering

Punta Gorda, Florida

Owner 2014 - present

Engineering Systems Inc.

Ft. Myers, Florida

Project Manager/Senior Consultant 2002 - 2014

David Douglas Associates

Ft. Myers, Florida

Project Engineer, 2001 – 2002

Continuing Education

FBPE-PDH Collaboration Across the Road Weather Enterprise – Course No: C06-021 – February 2025

FBPE-PDH Signal Timing Optimization – Course No: C05-005 – February 2025

FBPE-PDH Synthesis of Variable Speed Limit Signs – C05-029 – February 2025

American Traffic Safety Services Association Traffic Control Plan/Work Zone – Florida Advanced Training Course – October 2023

FBPE-PDH Roundabout Traffic Design and Landscaping – Course No: C03-010 – February 2023

FBPE-PDH Roundabout Planning and Operation – Course No: C02-011 – February 2023

FBPE-PDH Low-Cost Treatments for Horizontal Curve Safety – Course No: C08-020 – February 2023

Society of Automotive Engineers – Accessing and Interpreting heavy Vehicle Event Data Recorders – Course No: C1022 – October 2021

FBPE-PDH Geometric Design for Roads, Streets, Walks and Open Storage Areas – Course No: C03-018 – February 2021

FBPE-PDH Traffic Bottlenecks Operational Improvements – Course No: C06-048 – February 2021

FBPE-PDH Transportation Management Plans for Work Zones – Course No: C07-001 – February 2021

Society of Automotive Engineers Accessing and Interpreting Heavy Vehicle Event Data Recorders – Fall 2021

Society of Automotive Engineers Applying Automotive EDR Data to Traffic Crash Reconstruction – Spring 2018

Institute of Police Technology and Management BOSCH CDR Technician Training – Spring 2018

FBPE-PDH Designing Traffic Signals – Course NO: C03-023 – February 2017

FBPE-PDH Pedestrian and Bicyclist Safety and Mobility – Course No: C05-016 – February 2017

FBPE-PDH Promoting Bicycle Commuter Safety – Course No: C069-004 – February 2017

American Traffic Safety Services Association Traffic Control Plan/Work Zone - Florida Advanced Training Course – May 2013

American Society of Civil Engineers Designing Bicycle Facilities Webinar – April 2013

Collision Publishing CDR Summit Seminar, Houston TX – January 2013

American Society of Civil Engineers Work Zone Traffic Control Webinar – September 2012

Accreditation Commission of Traffic Accident Reconstruction (ACTAR) #2458 – September 2011

Regional Planning – Bicycle-Pedestrian-Vehicle, University of Central Florida Fall 2010

Quality Management, University of Central Florida Spring 2010

Northwestern University Accident Investigation – March 2009

Occupant and Vehicle Responses in Rollovers, SAE – January 2009

IPTM Investigation of Commercial Vehicle Accidents – September 2007

Zweig White Project Management Seminar – December 2007

Queueing Theory, University of Central Florida, Spring 2007

Highway Capacity, University of Central Florida, Fall 2006

Society of Automotive Engineers, Vehicle Accident Reconstruction Methods 2006, Ft. Myers, Florida, October 2006

ATV Safety Institute Rider Course, Bartow FL, April 2006

Traffic Safety Analysis, University of Central Florida, Spring 2005

Traffic Engineering, University of Central Florida, Spring 2004

Intelligent Transportation Systems, University of Central Florida, Spring 2004

Traffic Operations, University of Central Florida, Fall 2004

Motorcycle Safety Foundation Rider Course, Naples FL, June 2004

Geometric Design Transportation, University of Central Florida, Fall 2003

Special Problems in Accident Reconstruction, Institute of Police Technology and Management (IPTM), Jacksonville, Florida, May 2003

Investigation of Motorcycle Crashes, Institute of Police Technology and Management (IPTM), Jacksonville, Florida, September 2002

MycoMeter-test Training Program and Certification, Ft. Myers, Florida, September 2002

Representative Projects

Mr. Fischer has reported and analyzed a variety of projects including but not limited to the following investigative processes;

Accident Reconstruction
Time and Distance Relative Analysis
Driver Decision / Perception-Reaction Time Studies
Vehicle Crush / Momentum Analysis
Vehicle Safety Systems integration – auto braking/recognition
Pedestrian Impact / Launch-Slide Studies
Bicycle Facility Design / Rider-active Dynamic Analysis
Bicycle/Pedestrian Conspicuity
Vehicle Dynamics
Crash Worthiness / Testing
Photogrammetric Analysis
Sight Distance Calculations
Roadway Geometric Studies
Impairment / Distraction Studies
Motorcycle Design / Operation
Vehicle Handling / Stability
Vision Obstruction
Traffic Signalization Synchronization
Parking Lot Design / Standards
Roadside Drop-Offs / Critical Slope
Barrier Impact / Warrant
Roadway Signage / Markings
Roadway Surface Inconsistencies
Marine Vessel Handling / Stability

Presentations

“Vehicle Accident Fraud” Liberty Mutual (Presenter), Ft. Lauderdale, FL, January 2012

“Work Zone Traffic Liability Seminar” Underground Contractors Association (Presenter)
Chicago, IL, May 2012

“Accident Reconstruction and Injury Analysis” Chartis Insurance (Presenter) Atlanta,
GA, April 2012

“The Investigation and Analysis of Off-Road Recreational Vehicle Accidents” University
of North Florida IPTM (Presenter) Jacksonville, FL, April 2006

“Old Dogs/New Tricks; Aging Drivers and Emerging Technologies” Defense Research
Institute (DRI) New Orleans, LA, Spring 2014

“Handling and Defending the Bicycle Claim” Auto Owners Insurance (Presenter) Ft.
Myers, FL, May 2015

“Accident Reconstruction & Investigative Analysis including Motorcycle Operation”
Geico Insurance (Presenter), Lakeland, FL, Spring 2016

“Accident Reconstruction and Analysis,” Kanner & Pinaluga – West Palm Beach, 2016

“Accident Investigation & Evidence Preservation” Zurich Insurance – Atlanta GA, 2017

“Accident Reconstruction & Investigative Analysis - Motorcycle-Bicycle-Pedestrian”
Geico Insurance (Presenter) Lakeland, FL, Spring 2017

“Vehicle Data Downloading” Morgan and Morgan – Ft. Myers, Spring 2019

“Accident Reconstruction & Investigative Analysis - Motorcycle-Bicycle-Pedestrian”
Geico Insurance (Presenter) Lakeland, FL, Spring 2019

“Vehicle Downloads and Other Emerging Technologies” Florida Defense Lawyers
Association (FDLA) (Presenter) Orlando, FL, June 2019

“Application of Vehicle Download & Environmental Video Data in Reconstructing
Accidents” Florida Defense Lawyers Association (FLDA) (Presenter) Orlando FL, June
2020

“When Life Throws You a Curve, Lean into it – Reconstructing Motorcycle Operation and
Dynamics for the Courtroom” Florida Defense Lawyers Association (FDLA) (Presenter)
Orlando FL, June 2022

Publications

“Commercial Vehicle Skid Distance Testing and Analysis,”
Bedsworth, K., Butler, R., Rogers, G., Breen, K., and Fischer, W.
SAE International 2013-01-0771, April 2013

“Analyzing the Risk of Daily Life – Revisited for Consumer and Recreational Products”
Global Legal Group
The International Comparative Legal Guide to: Product Liability 2011

“Using GPS based Data Acquisition in Forensic Accident Reconstruction”
Butler, R.J., Breen, K.C., Fischer, W.J., Bedsworth, K.D., and Haupt, N.R
Collision-International Compendium of Crash Research, Volume 2, Issue 2, Fall 2007

“Inquiry into the Cause of Fatality and Injury on Victorian Farms”
Parliament of Victoria
Rural and Regional Services and Development Committee
Melbourne, Australia, August 2005

Miscellaneous

Licensed Motorcycle Operator/Active Rider

PADI Open Water SCUBA Certification

Florida Trail Riders Active Racing Member

ATV/SVIA Rider Certificate

USCG Boating Safety Course Certificate/Active boater

Active Cyclist road/trail

Sky Diving Certificate