



DWAYNE G. "RED" OWEN
CERTIFIED ACCIDENT RECONSTRUCTIONIST
redowen@crashresponse.com
www.crashresponse.com

EMPLOYMENT

Crash Response, LLC, October, 2015 to present

Owner of Crash Response, LLC, an accident reconstruction firm. Areas of expertise include accident reconstruction (certified accident reconstructionist) of motor vehicles crashes ranging from those involving motorcycles to tractor-trailers; accident investigation; ECM and CDR (black box) downloads and analysis; accident scene and evidence photography; forensic examiner (American Board of Forensic Examiners Certified).

PREVIOUS EMPLOYMENT

Ruhl Forensic, Inc., 1983-2015
Accident Reconstructionist

City of Freeport Police Department, May 15, 1971, to June 15, 1991
Promoted to Deputy Chief, May 27, 1990
Promoted to Lieutenant, August 1, 1987
Promoted to Sergeant, December 1, 1984
Promoted to Patrolman First Class, October 1, 1981
Assignments included:
Patrol Shift Commander
Accident Reconstructionist for City of Freeport
Traffic Safety Advisor to City Council
Commander and Training Officer of the Auxiliary Police
Communication and Computerization
Retired: 06-15-91

University of Illinois at Urbana-Champaign, 1997 - 2004
Department of Community Health, Motorcycle RiderCourse Instructor
(Motorcycle Safety Foundation - National Certification)

Highland Community College, Humanities and Social Science Division, 1983-1990
Photography Instructor

EDUCATION

1968-70 Milwaukee School of Engineering, Milwaukee, Wisconsin
Electronic Communication program

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1967-68 Highland Community College, Freeport, Illinois
Pre-Engineering Program

Various police training schools, including those at University of Illinois at Urbana-Champaign and Northwestern University at Evanston

Areas of instruction:

Motor Vehicle	872 class hours
Criminal	467 class hours
Administration	232 class hours
Safety	212 class hours

CERTIFICATIONS

Certified Accident Reconstructionist, since February 1989
Certified Crash Data Retrieval System Operator, since January 2004
Certified Forensic Examiner, since January 1998
Class A Commercial Driver's License with Endorsements (current)
Motorcycle Instructor, Basic RiderCourse, RiderCoach Certification, April, 2003
Motorcycle Instructor RiderCourse Certification, October, 1997

SPECIALIZED TRAINING

The Successes, Limitations & Future of Automatic Emergency Braking Systems (AEB),
NAPARS, Zoom training class, April 11, 2025 (2 hours)

Recon-3D User Group Training, Zoom conference, February 25, 2025 (5 hours)

Advanced Commercial Vehicle Data Systems, presented by the Forensic Training Group at
the IATAI 2024 Conference, Tinley Park, Illinois, October 14-15, 2024 (16 hours)

EDR Update, National Association of Traffic Accident Reconstructionists and Investigators,
Zoom conference, October 2, 2024 (2 hours)

Video Analysis, National Association of Traffic Accident Reconstructionists and Investigators,
Zoom conference, October 2, 2024 (2 hours)

The Traffic Signal as an EDR; Did It Record Your Crash?, National Association of Traffic
Accident Reconstructionists and Investigators, Zoom conference, October 3, 2024 (2 hours)

Toyota Safety Systems Training presented by Nick Manz, Product Engineer with Toyota
Canada, Zoom conference, June 14, 2024 (2 hours)

Recon-3D User Group Training, Zoom conference, February 20, 2024 (5 hours)

NAPARS Heavy Vehicle EDR Update, Zoom conference, July 28, 2023 (2 hours)

Cloud Compare Training, Zoom conference, June 27-28, 2023 (8 hours)

Recon-3D User Group Training, Zoom conference, March 21, 2023 (5 hours)

SAE International's Accident Reconstruction Digital Summit 2023, Zoom conference, March 1-2, 2023 (5 hours)

Recon-3D Training Course and Measurement Validation, Zoom conference, February 21, 2023 (8 hours)

2022 HVE Forum, Zoom conference, February 28, 2022 (4 hours)

FARO 3D Visualization Software Course, FARO Academy, July 9, 10 & 26, 2019 (18 hours)

Roadside Inspection Course – Vehicle Requirements, Commercial Vehicle Safety Alliance, Oak Park, WI, June 24 – 28, 2019 (40 hours)

IATAI Traffic Crash Reconstruction Conference, Springfield, IL, October 4-6, 2017

Digital Forensics of Heavy Vehicle Event Data Recorders (Engine Control Modules), University of Tulsa, Tulsa, OK, July 11-13, 2017 (20 hours)

Investigation of Motorcycle Crashes, Institute of Police Technology and Management, University of North Florida, Joliet, IL, November 7-11, 2016 (35 hours)

IATAI Traffic Crash Reconstruction Conference, East Peoria, IL, September 21-23, 2016

IATAI Traffic Crash Reconstruction Conference, East Peoria, IL, September 16-18, 2015

ARAS 360HD Advanced Computer Diagramming and Animation for Incident Reconstruction, September 24-26, 2013 (18 hours)

IATAI Traffic Crash Reconstruction Conference, East Peoria, IL, September 18-20, 2013

Crash Data Retrieval User's Seminar, Houston, TX, January 21-23, 2013 (20 hours)

How to Interpret Commercial Vehicle Event Data Recorders (Engine Control Modules), University of Tulsa, Tulsa, OK, November 15-19, 2010 (40 hours)

European Conference for Accident Reconstruction 2009, Pedestrian and Two Wheeler Crash Testing (Pedestrians, Bicycles, Motorcycles), Wildhaus, Switzerland, June 12-13, 2009

Coaching the Emergency Vehicle Operator II Ambulance, Defensive Driving Course, National Safety Council, January 7, 2009

Design and Operation of Work Zone Traffic Control seminar, presented by a National Highway Institute certified instructor, Champaign, IL, December 5, 2008

Vetronix / Bosch Crash Data Retrieval (CDR) Data Analyst Course, Westlake, OH, May 20-23, 2008 (32 hours)

Vetronix / Bosch Crash Data Retrieval (CDR) Technician Course, Westlake, OH, May 19, 2008 (8 hours)

Use of robotic, pulsed laser total station and data recorder for forensic mapping, TOPCON, Champaign, IL, August, 2007 (6 hours)

Crash Data Retrieval User's Conference, Dallas, TX, February 13-14, 2006 (16 hours)

Nikon Advanced Digital Photography Course, Rosemont, IL, November 20, 2005 (8 hours)

Photogrammetry and the use of Photomodeler in Accident Investigation, Champaign, IL, July 8-9, 2005 (24 hours)

Operation and Maintenance of Heavy Duty Vehicle Air Brake Systems and Components Course, Bendix, Chicago, IL, June 1-3, 2004 (24 hours)

Vetronix Crash Data Retrieval (CDR) System Operator Course, Chicago, IL, January 28-30, 2004 (24 hours)

EDC Simulations Training Course, University of Miami, Miami, FL, November 10-14, 2003 (35 hours)

Motorcycle Instructor, Basic RiderCourse, RiderCoach Certification, Motorcycle Safety Foundation, University of Illinois, April 11-12, 2003 (16 hours)

EDC Reconstruction Training Course (EDCRASH), University of Miami, Miami, FL, November 11-15, 2002 (35 hours)

CDL Defensive Driving Course, Champaign, IL, December, 2001

Using a pulsed laser total station and data recorder to perform forensic mapping of an accident scene, TOPCON, Champaign, IL, September, 2001

Commercial Driving License

Braking Performance of Heavy Commercial Vehicles, Society of Automotive Engineers, Lexington, KY, September 25-26, 2000

European Conference for Accident Reconstruction 2000, Passenger Vehicle Crash Testing (Rollover, Pedestrian Impacts, and Tree Impacts), Neumunster, Germany, May, 2000

Motorcycle Instructor RiderCourse, Motorcycle Safety Foundation, University of Illinois, October, 1997, 80 hours

Inspection of Articulated Vehicles, TrukSafe America Risk Management, Inc., Phoenix, AZ, March 12, 1993

Graduate, SOS Big Rig Driving School, Phoenix, AZ, March, 1993

Heavy Vehicle Rollovers, SAE Seminar, Atlanta, GA, April 29-30, 1993

EDC Simulations, Accident Reconstruction Seminar, Calif. State University, Northridge, CA, 01/21-26, 1990 (40 hours)

Truck Enforcement Laws, Northwest Illinois Criminal Justice Commission, June, 1987

PROFESSIONAL ASSOCIATIONS

American Board of Forensic Examiners, Diplomate
Commercial Vehicle Safety Alliance
Illinois Association of Chiefs of Police
Illinois Association of Technical Accident Investigators
Midwest Association of Technical Accident Investigators
National Association of Professional Accident Reconstruction Specialist, Inc.
Society of Automotive Engineers

PRESENTATIONS

"Obtaining Truck Wreck Data // After the Crash," podcast with Atty. David Craig, January 2021.

"An Evaluation of Vehicle Deceleration Rates on a Common Surface," D. G. Owen, European Accident Reconstruction Conference, Wildhaus, Switzerland, June 12, 2009.

"Simulation Involved in Vehicle Accident Reconstruction," Dr. Roland L. Ruhl and Dwayne G.

Owen, Proceedings of the 1989 Summer Computer Simulation Conference, Austin, Texas, Society for Computer Simulation, July 24-27, 1989.

PUBLICATIONS

Owen, Dwayne G. and Scott Duvall, On-Board Electronics published in *Truck Accident Litigation, Third Edition*, Chicago: American Bar Association, 2012.

Owen, Dwayne G. and Scott M. Duvall, Truck Crash Investigation and Reconstruction published in *Truck Accident Litigation, Third Edition*, Chicago: American Bar Association, 2012.

Owen, Dwayne G. and Senalik, C. Adam, Data Collection: Site, Vehicle, and Electronic Evidence published in *Truck Accident Litigation, Second Edition*, American Bar Association, 2006.

Editorial duties on *Truck and Trucking Handbook: A Primer*, Ruhl and Associates, 2000.

Ruhl, Roland A. and Owen, Dwayne G., *Vehicle Accident Investigation: A Guide for Risk Managers and Claims Personnel*, Ruhl and Associates, 1994. Second printing, Fall 1996.

TRAINING ADDENDUM

Motor Vehicle

04/11-12/03	Motorcycle Instructor, Basic RiderCourse, RiderCoach Certification, Motorcycle Safety Foundation, University of Illinois 16 hours
09/22-24/99	IATAI Accident Reconstruction Conference, Springfield, IL 25 hours

09/09-11/98	IATAI Accident Reconstruction Conference, Springfield, IL 16 hours
10/97	Motorcycle Instructor RiderCourse, Motorcycle Safety Foundation, University of Illinois 80 hours
09/21-24/97	ATA Conference on Highway Accident Litigation, Monterey, CA, 20 hours
09/97	Motorcycle RiderCourse, Motorcycle Safety Foundation, University of Illinois 20 hours
05/11-13/92	MATAI Technical Accident Investigator Training Seminar, 6 hours
10/10-12/91	IATAI's Accident Reconstruction Conference, Illinois State University 24 hours
10/04-06/90	IATAI's Accident Reconstruction Conference, Illinois State University 24 hours
02/15-16/89	Accident Reconstruction Specialist Exam, IL Law Enforcement Training Board 16 hours
02/11-12/89	Accident Reconstruction Review, N.E. IL Criminal Justice Commission 16 hours
10/05-07/89	IATAI Accident Reconstruction Conference, Illinois State University 24 hours
12/08-09/88	CDSI AutoCAD Operator Training Course, CAD Design Systems, Inc. 16 hours
10/06-08/88	IATAI Accident Reconstruction Conference, Illinois State University 24 hours
10/08-10/87	IATAI's Accident Reconstruction Conference, Illinois State University 24 hours
06/15-19/87	Microcomputer Application Programs for Traffic Accident Reconstruction, Northwestern University 40 hours
06/02/87	Truck Enforcement Laws, N.W. IL Criminal Justice Commission 8 hours
04/23/86	Traffic Law, N.W. IL Criminal Justice Commission 8 hours
12/16/85	D.W.I. Law Update and Changes, N.W. IL Criminal Justice Commission 8 hours
10/15-26/84	Traffic Accident Reconstruction, Northwestern University 72 hours
06/19-23/83	Vehicular Homicide - D.W.I., Northwestern University 40 hours
01/24-28/83	Police Traffic Radar Instructor, Illinois State Police Academy 33 hours
04/28-30/81	Illinois Vehicle Code, Illinois Secretary of State 24 hours
01/21/81	Police Radar Seminar, N.W. IL Criminal Justice Commission 8 hours
04/07-25/80	Technical Accident Investigation, Northwestern University 120 hours
01/22-26/79	Breath - Alcohol Testing, University of Illinois at Urbana-Champaign 40 hours
09/11-22/78	Accident Investigation, Northwestern University 80 hours

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01/30/74	Defensive Driving, National Safety Council N/A
09/26/73	Police Speed Radar Operation, Decatur Electronics, Inc. 4 hours
04/06/73	Traffic Accident Investigation, Chicago Police Dept. Extension Unit
06/05-09/72	Traffic Crash Investigation, University of Illinois at Urbana-Champaign 40 hours

Administration

02/22-26/88	Traffic Executive Development, Northwestern University
03/14-18/88	80 hours
12/09/86	Planning & Implementing Change, N.W. IL Criminal Justice Commission 8 hours
09/09/86	Management Issues in Law Enforcement, N.W. IL Criminal Justice Commission, 8 hours
02/27/86	Police Records - Retention and Destruction, N.W. IL Criminal Justice Commission, 8 hours
09/09/85	Criminal and Civil Lawsuits, N.W. IL Criminal Justice Commission 8 hours
09/07/84	Liability of Peace Officers, N.W. IL Criminal Justice Commission 8 hours
03/06/84	Police Supervision, N.W. IL Criminal Justice Commission 8 hours
10/07/83	Police Liability, N.W. IL Criminal Justice Commission 8 hours
11/01-02/82	Stress Management, N.W. IL Criminal Justice Commission 16 hours
12/07-18/81	Supervision of Police Traffic Personnel, Northwestern University 80 hours

Criminal

06/26/90	Use of Cap-Stun, N.W. IL Criminal Justice Commission 3 hours
03/19/89	Weapon Selection Criteria: Semi-Automatic vs Revolvers Course, N.W. IL Criminal Justice Commission
12/14/88	9mm Pistol, Federal Bureau of Investigation 4 hours
10/27/87	Domestic Violence Act, N.W. IL Criminal Justice Commission 8 hours
03/06/87	High Risk Felony Stops, Federal Bureau of Investigation 8 hours
12/05/85	High Risk Felony Arrests and Stops, Federal Bureau of Investigation 8 hours
06/06/85	Crime Scene Investigation, N.W. IL Criminal Justice Commission 8 hours
01/23/85	Use of Deadly Force, N.W. IL Criminal Justice Commission 8 hours
11/13/84	Laws of Evidence, N.W. IL Criminal Justice Commission 8 hours

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02/08/84	Self Defense, N.W. IL Criminal Justice Commission 8 hours
10/12/83	Search and Seizure, N.W. IL Criminal Justice Commission 8 hours
09/28/83	Interviews and Interrogations, N.W. IL Criminal Justice Commission 8 hours
03/16-17/82	Interviews and Interrogations, University of Illinois at Urbana-Champaign 16 hours
01/15-16/82	Street Survival Seminar, Hawkeye Institute, Waterloo, Iowa 16 hours
03/19/81	Officer Survival Seminar, N.W. IL Criminal Justice Commission 8 hours
12/15/80	Interviews and Interrogations, Chicago Police Dept. Extension Unit N/A
09/12/79	Stress Shoot, Federal Bureau of Investigation
11/15-16/78	Latent Fingerprints, Freeport Police Department 16 hours
05/24-26/78	Stress Firearms, Federal Bureau of Investigation 24 hours
11/15/77	Street Stops Seminar, N.W. IL Criminal Justice Commission 8 hours
01/25-26/77	Criminal Law, N.W. Illinois Criminal Justice Commission 16 hours
12/15/75	Emergency First Aid, Chicago Police Dept. Extension Unit N/A
09/10/75	Fundamentals of Criminal Investigation, Chicago Police Extension Unit N/A
04/26/74	Crime Scene Investigation, Illinois Bureau of Investigation, 8 hours
04/15/74	Police Patrol Procedures, Chicago Police Dept. Extension Unit N/A
01/18-19/73	Arrest, Search and Seizure, Illinois Bureau of Investigation 16 hours
09/21-22/71	Basic Police Training, University of Illinois at DeKalb 240 hours

Safety

05/16/90	Disaster Preparedness for Aircraft Emergencies, N.W. IL Criminal Justice Commission 3 hours
03/13/90	Gas and Electric Emergencies, N.W. IL Criminal Justice Commission 3 hours
06/26-30/89	Hazardous Materials, Basic Awareness Instructor, IDOT 32 hours
05/16/88	CPR Instructor, American Red Cross 8 hours
05/02/88	Health Safety Education, American Red Cross 4 hours
03/13/88	Cardiopulmonary Resuscitation, American Red Cross 8 hours

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07/23/87	Radiological Monitoring, Illinois Emergency Services and Disaster Agency 8 hours
10/18/86	Hazardous Materials Emergency Response, Illinois Dept. of Transportation 8 hours
06/21-29/86	Hazardous Materials: First Responder, IL Dept. of Transportation 32 hours
04/26/86	Cargo Truck Emergency Response, Safety Services, Jacksonville, Florida 8 hours
04/16/86	Helicopter Safety, IL Department of Transportation N/A
02/26/86	Hazardous Materials Awareness, University of Illinois at Urbana-Champaign 8 hours
03/26/83	Handling Radiological Materials, Illinois Emergency Services and Disaster Agency
07/25/82	Disaster Control Seminar, Safety Systems, Inc. 8 hours
07/09/80	Basic Radiological Monitoring, Illinois Emergency Services and Disaster Agency N/A
09/18/73	Emergency Medical Technician - AMB., Illinois Dept. of Public Health, 82 hours