

DANIEL R. BILLINGTON II, ACTAR #1913

A C C R E D I T E D C O L L I S I O N R E C O N S T R U C T I O N I S T

CURRICULUM VITAE

EXECUTIVE SUMMARY

Mr. Billington is an expert in the field of collision reconstruction, human factors, visibility, and lighting. He has provided expert testimony throughout the United States and has also provided expert services on cases in Europe, Asia, Africa, and the Americas. His knowledge has made him a speaker in high demand with many legal and insurance organizations.

His training and experience history is as follows:

- Accredited by ACTAR (Accreditation Commission of Traffic Accident Reconstructionist) – Recognized for excellence in leadership for developing collision reconstruction standards while serving as a member of the ACTAR Governing Board of Directors
- Specialist in human factors & forensic visibility analysis
- Specialist in pedestrian collision analysis
- 27 years crash and crime scene investigation and reconstruction experience
- 18 years of experience in law enforcement
- Collision reconstruction cases involving occupant positioning, speed determination, time/distance studies, point of impact placement and computer-aided reconstruction
- Security consulting and analysis
- Motorcycle/bicycle/pedestrian/commercial vehicle collision analysis
- Emergency vehicle operation and collision analysis
- Police Procedures
- Railroad incidents
- Forensic animator
- Low-velocity collision analysis
- Photographer and videographer

- Occupant Kinematics Analysis
- Vehicular collision causes relating to mechanical malfunctions
- Seat belt usage and function analysis
- Speed determinations from video
- Video enhancement and analysis
- Collision investigations involving witness interviews, scene investigations, and vehicle examinations
- Computer simulation of motor vehicle collisions
- Dynamic avoidance analysis
- Completed approximately 2000 collision reconstructions since 2005
- Investigation of more than 3000 collisions since 1998

EXPERT WITNESS EXPERIENCE – CRIMINAL & CIVIL MATTERS

- Expert testimony was provided 143 times in matters related to collision reconstruction (more than 100 additional court appearances for matters not pertaining to collision reconstruction).
- More than 10,000 hours of experience in traffic safety & enforcement
- Qualified as an expert in criminal and civil courts within U.S. Federal Districts, the States of Wisconsin, Washington, Wyoming, Tennessee, Texas, Georgia, Illinois, Iowa, Massachusetts, Michigan, Minnesota, Ohio, Wyoming, and U.S. Military Court in Germany.
- Evidence given on the following issues: forensic visibility, emergency vehicle operation, rail yard lighting, transit vehicle collisions, injury cause analysis, seat belt usage, low-speed impact analysis, police vehicle operations and pursuits, patrol procedures, vehicle vs. pedestrians collisions, vehicle rollover speed, time/distance analysis, motorcycle collisions, commercial vehicles, impact speed analysis, crime scene preservation and diagramming, human factors, video analysis, animation, ballistic trajectory analysis, identification of persons, and more.

ACADEMIC BACKGROUND

**Training hours are found in parenthesis*

- Various seminars, conferences, and lectures; on-going
- Occupant Kinematics; University of North Florida State Institute of Police Technology and Management; July, 2024 (40)
- Advanced Environments and Animation with Virtual Crash; March, 2024 (24)
- Applied Physics for the Accident Reconstructionist; University of North Florida State Institute of Police Technology and Management; November, 2023 (40)
- Event Data Recorder Analysis – Level II; University of North Florida State Institute of Police Technology and Management; September, 2023 (40)
- Virtual Crash 5 Training; Robert Scurlock; February, 2023 (24)
- Advanced Troubleshooting and Vehicle Systems for the CDR/EDR Operator-Technician; Kent E. Boots & Associates; March, 2022 (40)
- Virtual Crash 4 Training; Forensic Training Group; March, 2018 (24)
- Motorcycle Collision Investigation; University of North Florida State Institute of Police Technology and Management; February, 2018 (40)
- Pedestrian/Bicycle Collision Investigation – Level II; University of North Florida State Institute of Police Technology and Management; October, 2017 (40)
- Microsoft Excel for Collision Reconstruction; Rich Consulting; May 2017 (24)
- Electronic Data Recorder Analysis in Traffic Collision Reconstruction; University of North Florida State Institute of Police Technology and Management; April, 2017 (40)
- Human Factors in Collision Reconstruction; University of North Florida State Institute of Police Technology and Management; June, 2016 (40)
- WREX 2016 Collision Reconstruction – Various sessions focused on human factors, motorcycle, and pedestrian collisions; May, 2016 (40)
- Fundamentals of Statistics for Traffic Crash Reconstruction; Rich Consulting; October, 2015 (40)
- Pedestrian/Bicycle Collision Investigation & Human Factors; University of North Florida State Institute of Police Technology and Management; July, 2015 (40)
- MA in Business Management, Emphasis in Project Management, Ashford University, Iowa; Summa Cum Laude; March, 2014

- Forensic Visibility and Lighting – one-on-one mentoring/training with Mr. James Sobek; June, 2013 to October, 2013. (120)
- BA in Criminal Justice, Ashford University, Iowa; Cum Laude; April, 2012
- Reflectivity and Forensic Vision; September, 2011 (8)
- Energy Analysis and CRASH 3; University of North Florida State Institute of Police Technology and Management; January, 2011 (40)
- SFST Certification, Lauderdale Lakes Police Department; March, 2011 (8)
- Heavy Truck ECM use in Traffic Crash Reconstruction; University of North Florida State Institute of Police Technology and Management; September, 2010 (8)
- ARAS360; Train-the-Trainer; September, 2010 (40)
- Annual firearms proficiency and qualification, Lauderdale Lakes Police Department; April 2010 through 2012 (12)
- Vehicular Homicide Conference; Wisconsin Department of Justice; Brookfield, WI; March, 2009 (16)
- Collision Reconstruction Update and Special Problems; University of North Florida State Institute of Police Technology and Management; February, 2009 (40)
- Crime Scene & Homicide Investigation Training; Various Instructors; Waukesha County Sheriff's Department; One-on-one, On-Going, August 2005 through November, 2008
- Successfully completed the examination for the Accreditation Commission for Traffic Accident Reconstruction; September, 2008
- Experiments in Crash Reconstruction; University of North Florida State Institute of Police Technology and Management, 2008 (24)
- Rail collision investigation and grade crossings; CP Railroad; October, 2007 (8)
- Certified as an airbag control module technician and analyst; Collision Safety Institute; October, 2006 (40)
- Advance Evidentiary Photography; Waukesha County Technical College; May, 2006 (40)
- Commercial Vehicle Inspection Training; Waukesha County Sheriff's Department; April through October, 2006 (80)
- VS Visual Statement, Inc.; Completed training in the use and application of the VistaFx computer aided diagramming software; January, 2006 (40)

- Certified Basic Evidentiary Photography; Milwaukee Area Technical College; January, 2006 (24)
- SFST Certification, Waukesha County Sheriff's Department; January, 2006 (8)
- Pursuit Intervention Technique; Racine County Sheriff's Department; September 2005 (8)
- Evidence Collection and Crime Scene Preservation; Waukesha County Sheriff's Department; On-Going, August 2005 through November, 2008
- iWitness Photogrammetry Scene and Evidence Diagramming software; Dechant Consulting, LLC; August, 2005 (24)
- Crime Scene & Homicide Investigation Training; Various Instructors; Waukesha County Sheriff's Department; On-Going, August 2005 through November, 2008
- Traffic Collision Reconstruction; University of North Florida State Institute of Police Technology and Management; October, 2004 (80)
- Vehicle Dynamics; University of North Florida State Institute of Police Technology and Management; September, 2004 (40)
- Technical Collision Investigation; Wisconsin Department of Transportation; June, 2004 (40)
- Basic SWAT; Waukesha County Sheriff's Department; May, 2004 (40)
- Field Training Officer; Locke & Suklove; February, 2004 (40)
- LTI Quick-Map System; Laser Technologies, Inc.; January, 2004 (8)
- Rail collision investigation and grade crossings; CP Railroad; October, 2003 (8)
- CrashZone computer aided diagramming software; Fox Valley Technical College; October, 2003 (40)
- Certified in the application of standard field sobriety tests; Waukesha County Technical College; September, 2003 (40)
- Trained in the use of VC3000 accelerometers; Vericom Computers; September, 2003 (8)
- Joint training in Collision Reconstruction Techniques and Methodologies; Waukesha County Sheriff's Department; September 2003 – January, 2009 (424)
- Basic Collision Investigation; Wisconsin Department of Transportation; August, 2003 (40)
- Field Training Officer Certification, Fox Valley Technical College; October, 2000 (40)

- Quarterly firearms proficiency and qualification, Waukesha County Sheriff's Department; August 1998 through 2008 (200)
- Milwaukee County Sheriff's Department Training Academy; Certified as a law enforcement officer in the State of Wisconsin; June - August, 1998 (400)
- Milwaukee County Sheriff's Department Training Academy; Corrections Certification, 1994 (120)
- Undergraduate degree program in Sociology & Criminal Justice, UW-Whitewater, 1990-1994

PROFESSIONAL WORK EXPERIENCE

- Great Lakes Forensic Experts (Formerly Great Lakes Collision Experts), LLC; Principal Collision Reconstructionist and Forensic Visibility Analyst – 2009 to present
- M-Crash Group (licensed as CrashTeams Great Lakes); Senior Collision Reconstructionist – 2005 to 2015
- Collision Reconstruction Instructor; 2005 to present
- Lauderdale Lakes Police Officer; June, 2010 to 2012
- Waukesha County Sheriff's Department; Deputy Sheriff – June, 1998 to January, 2009
- DB II Productions; Owner – 1999 to 2009
- Waukesha County Sheriff's Department; Correctional Officer – April, 1994 to June, 1998
- Wisconsin Department of Natural Resources – Range Safety Officer; 1992 to 1994

LECTURES & PRESENTATIONS GIVEN

- 2025 "Fundamentals of Physics and Collision Investigation"; 10 Presentations to all Junior-Level Students in the Pewaukee High School Physics Programs – Pewaukee, WI
- 2024 "34th Annual Institute of Trial Practice American Board of Trial Advocates (ABOTA)"
- 2024 "The Forensics of Collision Investigation"; Marion University Criminal Justice and Forensic Psychology – Fond du Lac, WI

- 2024 “Fundamentals of Physics and Collision Investigation”; Three presentations given the Physics Students in the Beaver Dam High School Physics Program – Brown Deer, WI
- 2024 “The Engineering Side of Collision Reconstruction”; Presented to the Engineering Students in the Beaver Dam High School Engineering Program – Beaver Dam, WI
- 2024 “Fundamentals of Physics and Collision Investigation”; Three presentations given the Physics Students in the Brown Deer High School Physics Program – Brown Deer, WI
- 2024 “The Engineering Side of Collision Reconstruction”; Presented to the Engineering Students in the Brown Deer High School Engineering Program – Brown Deer, WI
- 2024 “Fundamentals of Physics and Collision Investigation”; Presented to the Physics Students in the Cudahy High School Physics Program – Cudahy, WI
- 2024 “Fundamentals of Physics and Collision Investigation”; 12 Presentations to all Junior-Level Students in the Pewaukee High School Physics Programs – Pewaukee, WI
- 2023 “Accident Reconstruction, Physics, & Human Factors”; Wisconsin DUI Defense Seminar; Elkhart Lake, WI
- 2023 “The Physics of Collision Reconstruction and Human Factors”; Criminal Defense Attorneys of Michigan, Kalamazoo, MI
- 2023 “Fundamentals of Physics and Collision Investigation”; High School Physics Program – Cudahy, WI
- 2023 “The Physics of Collision Reconstruction and Human Factors”; CDAM Summer Conference – Kalamazoo, MI
- 2023 “The Physics of Collision Reconstruction and Human Factors”; NCDD Winter Session – Iowa City, IA
- 2023 “Fundamentals of Physics and Collision Investigation”; Presentation to Students in the AP High School Physics Program – Cudahy, WI
- 2023 “The Physics of Collision Reconstruction and Human Factors”; NCDD Winter Session – San Diego, CA
- 2023 “Fundamentals of Physics and Collision Investigation”; 11 Presentations to all Junior-Level Students in the High School Physics Programs – Pewaukee, WI
- 2022 “Forensic Analysis of Visibility, What You See is Not What You Get”; NCDD/NACDL Joint Fall Conference – Las Vegas, NV
- 2022 “Electronic Data Recorders, Not the Smoking Gun”; NCDD/NACDL Joint Fall Conference – Las Vegas, NV

- 2022 “Forensic Visibility Analysis & Nighttime Mapping Techniques”; MATAI Sponsored Training – Green Bay, WI
- 2021 “Fundamentals of Physics and Collision Investigation”; 11 Presentations to all Junior-Level Students in the High School Physics Programs – Pewaukee, WI
- 2021 “Sight Distance & Visual Concepts”; MATAI Conference – Des Moines, IA
- 2019 “Understanding the Interplay Between the Attorney and the Expert”; Wisconsin Association of Justice, Milwaukee, WI
- 2019 “Human Factors and Visibility in Collision Related Cases”; Iowa Association of Justice Annual Conference, Coralville, IA
- 2019 “Understanding the Interplay Between the Attorney and the Expert”; Criminal Defense Attorneys of Michigan annual conference, Detroit, MI
- 2018 “Human Factors and Visibility: Motorcycles, Pedestrians, and Concepts”; MATAI Conference – Des Moines, IA
- 2017 “Forensic Analysis of Accident Cases”; NCDD/NACDL Joint Fall Conference – Las Vegas, NV
- 2017 “Accident Reconstruction”; NCDD/NACDL Joint Fall Conference “The Rockstars of DUI Defense” – Las Vegas, NV
- 2017 “Electronic Data Recorders {Black Boxes, Are They the “Smoking Gun?”}”; NCDD Summer Session – Harvard University Law School, Cambridge, MA
- 2017 “Forensic Aspects of Driver Response”; NCDD Summer Session – Harvard University Law School, Cambridge, MA
- 2013 “Visibility and Affirmative Defense Arguments”; Wisconsin DUI Defense Seminar; Elkhart Lake, WI
- 2012 “Forensic Visibility and Affirmative Defense”; Criminal Defense Attorneys of Michigan annual conference; Traverse City, MI
- 2012 “Collision Reconstruction in the Insurance Industry”; Wisconsin River Valley Association; Wisconsin Rapids, WI
- 2011 to 2014 Certified Trainer for ARAS 360 & ARAS HD; Kamloops, BC, providing training for police officers and engineers throughout North America
- 2010 Special Problems in Collision Reconstruction; Wisconsin River Valley Association; Wisconsin Rapids, WI

- 2009 Rotational Analysis and Related Applications in Collision Reconstruction; Crashteam Conference; Puerto Vallarta, Mexico
- 2008 Advanced Animation Techniques; Visual Statement Conference; Puerto Vallarta, Mexico
- 2008 Hi-Speed Video and Its Application in Collision Reconstruction Testing; IATAI Annual Conference; Bloomington, IL
- 2007 Animation for Collision Reconstruction; Waukesha County Prosecutors In-Service; Waukesha, WI
- 2007 Animation for Collision Reconstruction; UW Wisconsin State Prosecutors Conference; Appleton, WI
- 2005 to 2010 Certified Trainer for Visual Statement Software; Kamloops, BC, providing training for engineers and police officers throughout North America

PROFESSIONAL ASSOCIATIONS

- Society of Automotive Engineering (SAE), 2017 to present
- The Illuminating Engineering Society (IES), 2013 to present
- American Railway Engineering and Maintenance-of-Way Association (AREMA), 2020 to present
- Golden Key International Honors Society, 2013 to present
- The Accreditation Commission for Traffic Collision Reconstructionists, member (ACTAR) #1913; Current and in good standing – (Member of the ACTAR Governing Board of Directors 2008-2012)
 - ACTAR Theory Test Development Committee Chairman, 2009 to 2012
- National Association of Professional Accident Reconstruction Specialists (NAPARS); 2008 to present
- Midwest Association of Technical Accident Investigators (MATAI); 2008 to present
- Illinois Association of Technical Accident Investigators (IATAI); 2006 – 2014
 - Served two terms as Secretary, 2008 – 2012

MATERIALS AUTHORED AND/OR PUBLISHED

- “Forensic Visibility Analysis and Human Factors Considerations – A Guide to the Forensic Analysis of Driver Performance”; 2022
- “EDR Investigation and Analysis – Understanding Their Real-World Use”; 2022
- “*An Attorney’s Guide to Accident Investigation*”; 2017, 2022, 2025
- Nevada DUI Defense: The Law and Practice, 2025, Lawyers and Judges Publishing; Contributing Author; ISBN: 978-1-936360-18-5
- NESCI’s Arizona DUI Defense – Sixth Edition, 2023, Lawyers and Judges Publishing; Contributing Author; ISBN: 978-1-936360-92-5
- Kansas DUI Defense: The Law and Practice, 2022, Lawyers and Judges Publishing; Contributing Author; ISBN: 978-1-936360-65-9
- Alabama DUI Defense – Fifth Edition, 2021, Lawyers and Judges Publishing; Contributing Author; ISBN: 978-1-936360-69-7
- NESCI’s Arizona DUI Defense – Fifth Edition, 2018, Lawyers and Judges Publishing; Contributing Author; ISBN: 978-1-936360-90-1
- Texas DWI Defense – Second Edition, 2018, Lawyers and Judges Publishing; Contributing Author; ISBN: 978-1-936360-64-2
- “*Forensic Analysis of Driver Performance*”; 2017