

SUMMARY OF QUALIFICATIONS – PROFESSIONAL PROFILE

Relevant Experience

- Retired **25-year** Washington State Patrol (**WSP**) senior trooper-detective with **8.5 years** working the road and **16.5 years'** experience as a detective/reconstructionist of which **14.5 years** were assigned to the WSP/WSDOT Major Accident Investigation Team (**MAIT**)
- President and Owner of Wilcoxson Consulting LLC since **2014** – provide collision investigation and reconstruction services
- Fully accredited with the Accreditation Commission for Traffic Accident Reconstruction (**ACTAR**) Reg. #1218
- **Fully Completed SAE** Accident Reconstruction Certificate Program
- Commercial Vehicle Safety Alliance (**CVSA**) trained
- Extensive civil and criminal crash experience
- Certified nine times as a Washington State Certified Technical Collision Specialists (CTS)
- 25 years of experience investigating and/or reconstructing collisions
- Past board member (00-02), president (02-04), secretary (13-15) and current Vice President (15 – present) of the Washington Association of Technical Accident Investigators (WATAI)
- Personally investigated, reconstructed, and/or assisted in over 2,000 collisions during 25-year law enforcement career, ranging from minor property damage to multiple fatality type crashes
- Available to complete full or limited assist crash investigations and reconstructions

Specialized Training

- **1990 – Trooper Basic Training, Washington State Patrol, 21-weeks**
- **1990 – Basic Collision Investigation, Washington State Patrol, 40-hours**
- **1991 – Advance Collision Investigation, Washington State Patrol, 64-hours**
- **1991 – Technical Collision Investigation, Washington State Patrol, 103-hours**
- **1993 – Firearm Instructor Basic, Washington State Patrol, 32-hours**
- **1995 – Tactical Baton Instructor, Washington State Patrol, 16-hours**
- **1996 – Instructor Development, Criminal Justice Training Center (CJTC), 40-hours**
- **1998 – Collision Investigation Reconstruction, Washington State Patrol, 132-hours**
- **1998 – Detective Basic Investigation, Washington State Patrol, 67-hours**
- **1998 – Total Station Operator Training, Washington State Patrol, 16-hours**
- **1998 – Level 1 AutoCad, McNeel and Associates, 24-hours**
- **1998 - PC Crash & Rect, Macinnis Engineering, 16-hours**
- **1998 - Highway-Rail Grade Crossing Collision Investigation, Burlington Northern, 16-hours**



- 1998 – *Reid Interviewing / Interrogation*, Reid and Associates, 24-hours
- 1999 – **Heavy Vehicle Reconstruction, Northwestern Univ., 40-hours**
- 2000 – *Acceleration and Vericom Computer (VC) 2000*, Vericom Computers Inc., 16-hours
- 2000 – *Trimble TTS 500 Total Station Training*, Washington State Patrol, 16-hours
- 2000 – **Comprehensive Bendix Brake School, Allied Signal, 40-hours**
- 2000 – *PC Crash Advanced*, Macinnis Engineering, 16- hours
- 2000 – *RCW Size, Weight, & Load*, Washington State Patrol, 32-hours
- 2001- *Haz Mat Transportation Accidents*, Huntsville Training Associates & Wash. State Patrol, 40-hours
- 2002 – *PhotoModeler*, Washington State Patrol, 24-hours
- 2001 – *Speed Determination from Crush*, Riverside County Sheriff Office, 40-hours
- 2002 – **Heavy Vehicle Reconstruction, Washington State Patrol, 36-hours**
- 2002 – **Crash Data Retrieval (CDR) System Operator, Collision Safety Institute, 16-hours**
- 2002 – *Human Factors for Drivers & Pedestrians*, Accident Dynamics Research Center, 40-hours
- 2002 – *Ped/Bike Crash Investigation*, Institute of Police Technology and Management, 40-hours
- 2002 – *Crash Zone Diagramming*, Seattle Police Department, 16-hours
- 2003 - *Applied Physics for the Traffic Crash Investigator*, Institute of Police Technology & Management, 40 hours
- 2004 – *PhotoModeler Instructor Training*, EOS Systems Inc., 24-hours
- 2004 – *Manual on Uniform Traffic Control Devices (MUTCD)*, Univ. of Washington, 21-hours
- 2005 – **Crash Data Retrieval (CDR) Update, Collision Safety Institute, 8-hours**
- 2006 – **Caterpillar Engine Control Module (ECM), Fining CAT (Canada), 8-hours**
- 2006 – **Detroit Diesel Engine Control Module (ECM), Detroit Diesel, 16-hours**
- 2007 – **Commercial Vehicle Safety Alliance North American Standard Level 1 & 2, CVSA, 80-hours**
- 2008 – *OnStar Public Outreach*, General Motors, 8-hours
- 2008 – *Forensic Analysis of Seatbelt Systems*, WATAI, 8-hours
- 2008 – *On-Guard Collision Safety*, Meritor Wabco, 8-hours
- 2008 – **Post Collision Heavy Vehicle Inspection Procedures, Washington State Patrol, 40-hours**
- 2008 – **Crash Data Retrieval (CDR) Technician Course, Collisions Safety Institute, 8-hours**
- 2008 - **Crash Data Retrieval (CDR) System Operator, Collision Safety Institute, 32-hours**
- 2008 – *Sokkia Nomad Total Station Training*, Washington State Patrol, 5-hours
- 2009 – *Optics & Lighting Issues*, Clearly Visible Presentations LLC, 40-hours
- 2010 – *Advance Reconstruction with Excel Applications*, Accident Analysis and Reconstruction, 40-hours
- 2010 – *Expert Witness Testimony Training*, WATAI, 6-hours



- **2010** – *Traffic Signal Reconstruction*, Forensic Traffic Specialist, 24-hours
- **2011** - *Crash Data Retrieval (CDR) Analyst*, Collision Safety Institute, 40-hours
- **2012** – *Heavy Commercial Vehicle Reconstruction*, Royal Canadian Mounted Police (RCMP), 40-hours
- **2013** – *Practical Homicide Investigation*, P.H.I. Investigative Consultants Inc., 24-hours
- **2013** – *Preserving and Analyzing Information from Heavy Vehicle EDRs*, Northwestern Univ., 40-hours
- **2014** – *CDR System Operators/Analysis and Application Update Course*, Crash Data Specialists LLC, 16-hours
- **2014** – *Accessing and Interpreting Heavy Vehicle Event Data Recorders*, SAE, 28-hours
- **2015** - *Pilot/Escort Vehicle Operator (P/EVO) Certification*, Evergreen Safety Council, 8-hours
- **2015** – *Heavy Vehicle Electronic Control Module Data Use in Reconstruction*, IPTM, 32-hours
- **2015** – *Preserving and Analyzing Information from Heavy Vehicle EDRs*, Northwestern Univ., 40-hours
- **2015** – *Traffic Control Flagger Certification*, Evergreen Safety Council, 8-hours
- **2015** – *Digital Forensics of Heavy Vehicle Event Data Recorders*, University of Tulsa, 20-hours
- **2016** – *Adult First Aid/CPR/AED*, American Red Cross
- **2016** – *Advanced Motorcycle Crash Analysis*, MFES, 40-hours
- **2016** – *Heavy Vehicle Communication Protocols*, University of Tulsa, 19-Hours
- **2016** – *Accessing and Interpreting Heavy Vehicle Event Data Recorders*, SAE, 28-hours
- **2016** – *Commercial Vehicle Braking Systems*, SAE, 20-hours
- **2016** – *Applying Automotive EDR Data to Traffic Crash Reconstruction*, SAE, 21-hours
- **2017** – *Preserving and Analyzing Information from Heavy Vehicle EDRs*, Northwestern Univ., 40-hours
- **2017** – *Pedestrian Collision Reconstruction*, Accident Analysis & Reconstruction, 40-hours
- **2017** – *PC Crash Online Essentials*, MEA Forensic, 12.5-hours
- **2018** – *Accessing and Interpreting Heavy Vehicle Event Data Recorders*, SAE, 28-hours
- **2018** – *Video Examinations for Police Investigators*, Forensic Video Solutions, 16-hours
- **2018** – *Applying Automotive EDR Data to Traffic Crash Reconstruction*, SAE, 21-hours
- **2018** – *Vehicle Dynamics For Passenger Cars and Light Trucks*, SAE 15-hours
- **2018** – *Vehicle Reconstruction: Principles and Technology*, SAE 21-hours
- **2018** – *Reconstruction and Analysis of Motorcycle Crashes*, SAE 6.5-hours
- **2018** – *Photography for Accident Reconstruction, Product Liability, and Testing*, SAE 24-hours
- **2019** – *Heavy Vehicle Reconstruction Techniques Including Digital Evidence*, FTG 40-hours
- **2019** - *Comprehensive Bendix Brake School*, Bendix 24-hours
- **2019** – *Basic Tire Mechanics and Inspection*, SAE 7-hours
- **2019** -*Tire Forensics Analysis*, SAE 14-hours
- **2019** - *Accessing and Interpreting Heavy Vehicle Event Data Recorders*, SAE, 28-hours



- **2019 – Advanced Technology Training, Bendix 16-hours**
- **2019 – Pix4D, Accident Analysis, 32-hours**
- **2019 - Photogrammetry and Analysis of Digital Media, SAE, 19-hours**
- **2020 – FARO Zone 3D Software Training, ai2-3D Forensics, 21-hours**
- **2020 – Photogrammetry Forensics, ai2-3D Forensics, 10-hours**
- **2020 – Applying Automotive EDR Data to Traffic Crash Reconstruction, SAE, 21-hours**
- **2020 – Accident Reconstruction, The Autonomous Vehicle and ADAS, SAE, 8-hours**

Specialized Seminars and Conferences and Training

- **1995 – Tire Damage, Michelin, 8-hours**
- **1999 – Practical Application of Crush, FARO, 32-hours**
- **2000 – Detective In-service, Washington State Patrol, 34-hours**
- **2001 – Collision Reconstruction and Formulas, FARO, 8-hours**
- **2001 – Static and Dynamic Truck Stability Tests, Royal Canadian Mounted Police (RCMP), 40-hours**
- **2002 – Crash Fest 2002, FARO, 24-hours**
- **2002 – Pedestrian Impact Testing , WATAI, 24-hours**
- **2002 – Occupant Kinematics, FARO, 4-hours**
- **2002 – Hidden Traps in Court Presentations, FARO, 4-hours**
- **2003 – Michelin Tire Failures, FARO, 8-hours**
- **2003 – Critical Speed Yaw Mark Identification and Validation, FARO, 8-hours**
- **2003 – Motor Coach Acceleration, WATAI, 16-hours**
- **2004 – Microsoft Excel for Reconstruction, WATAI, 16-hours**
- **2004 – Commercial Motor Vehicle Criminal Interdiction, Washington State Patrol, 8-hours**
- **2004 - ARC-CSI Crash Conference, 28-hours**
- **2004 – Crash Practical, ARC-CSI, 8-hours**
- **2004 – Reconstruction Basic Refresher, WATAI, 12-hours**
- **2005 – Translational Yaw, WATAI, 8-hours**
- **2005 – Recon Crash Practical, Washington State Patrol, 4-hours**
- **2005 - ARC-CSI Crash Conference, 28-hours**
- **2005 – Crash Practical, ARC-CSI, 8-hours**
- **2006 – Occupant Kinematics, King County Medical Examiners, 2-hours**
- **2006 – Crash Practical, WATAI, 16-hours**
- **2006 - National Incident Management System; An Introduction, FEMA, 1.3-hours**



- 2006 – *Investigating the Officer Involved Shooting*, Cutting Edge Training, 8-hours
- 2007 – *Vehicle Maintenance Management Conference (VMMC)*, Univ. of Washington, 40-hours
- 2007 – *Size, Weight & Load*, Port of Tacoma, 6-hours
- 2007 – *Spring Conference*, WATAI, 8-hours
- 2007 – *ARC-CSI Crash Conference*, 28-hours
- 2007 – *Crash Practical*, ARC-CSI, 8-hours
- 2007 – *Fall Conference*, WATAI, 16-hours
- 2008 - *Vehicle Maintenance Management Conference (VMMC)*, Univ. of Washington, 36-hours
- 2008 – ***Air Brake Adjustment Certification***, Bates Technical College, 4-hours
- 2008 – ***Heavy Truck Conference***, WATAI, 24-hours
- 2009 – ***Heavy Vehicle Crash Reconstruction***, NAPARS, 24-hours
- 2009 – *Crash Practical*, WATAI, 16-hours
- 2010 – *Expert Testimony*, WATAI, 8-hours
- 2011 – *Car/Pole & Lamps*, WATAI, 8-hours
- 2010 – *2010 Detroit Diesel Engine Regeneration Emissions*, Daimler Chrysler, 2-hours
- 2010 – *In-line & Critical Speed Yaw Testing*, Washington State Patrol, 8-hours
- 2011 – *ABS & Collision Avoidance*, Meritor Wabco, 2-hours
- 2012 – *Human Factor Consideration in Highway Design*, Federal Highway Administration (FHA), 8-hours
- 2012 – *Multiplex Electrical System Diagnostics Training*, Daimler Chrysler, 2-hours
- 2012 – *Hybrid & Electric Vehicles*, WATAI, 8-hours
- 2012 – *Heavy Vehicle Wheel End & Cooling Systems*, Valley Freightliner, 2.5-hours
- 2012 – *Monte Carlo Analysis*, WATAI, 8-hours
- 2012 – *Commercial Vehicle Battery Maintenance*, East Penn Manufacturing, 2.5-hours
- 2013 – *Investigating and Responding to Officer Involved Shootings*, Washington Homicide Investigators Association, 8-hours
- 2013 – *Auto Slack & Foundation Brakes*, Meritor, 2.5-hours
- 2013 – *Eaton Clutch Series Training*, Road Ranger, 2.5-hours
- 2013 – *Introduction to Mobile HVAC*, RedDot Corporation, 3-hours
- 2013 – ***Engine Control Modules (ECM)***, WATAI, 8-hours
- 2013 – ***Oregon State Police (OSP) Heavy Vehicle In-Service***, 24-hours
- 2014 – *Cognitive Interviewing*, KCIRT (UCLA), 16-hours
- 2014 – *Roadway Friction for Heavy Trucks (GoToForensics.com)*, 2-hours



- 2014 - *Time Distance analysis for Commercial Vehicles utilizing Brake Efficiency and Truck EDR Data (GoToForensics.com), 2-hours*
- **2014 - Oregon State Police (OSP) Heavy Vehicle Reconstruction School Test Day, 4-hours**
- 2014 – *Maintenance and Operation of the Bendix Air Brake and Air Disk Brake Systems, 2-hours*
- 2014 – *Low Speed Impact Injury Causation, Analysis and Testing, WATAI, 8-hours*
- 2014 – *Power Steering, TRW, 1-hour*
- 2014 – *Coolant & Chemicals, Cummins, 1-hour*
- 2014 – *Influential Witness, WATAI, 1.5-hour*
- 2014 – *RecTec Basic, GoToForensics.com, 6-hours*
- 2015 – *Traffic Signal Reconstruction, Forensic Traffic Specialist (WATAI), 10-hours*
- 2015 – *Eaton Clutch Series Training, Roadranger Academy, 1-hour*
- 2015 – *Air Disk Brake Field Testing, BrownLine Trucking – 16-hours*
- 2015 - *Optics & Lighting Issues, Clearly Visible Presentations LLC (WATAI), 24-hours*
- 2016 - *World Reconstruction Exposition (WREX) 2016, 40-hours*
- **2016 – Idaho State Police (ISP) Heavy Vehicle Reconstruction School Test Days, 16-hours**
- 2016 – *PC Crash & HVE Introductions and 2016 WREX Summary – (WATAI), 14-hours*
- 2017 – *Tire Anatomy & Examinations and Using Point Cloud Data – (WATAI), 14-hours*
- **2018 – Technical Reconstruction of Heavy Truck Crashes – (SOAR), 21-hours**
- **2019 – Online Interactive Airbrake Systems Training – (Bendix), 3-hours**
- **2019 – Technical Reconstruction of Heavy Truck Crashes – (SOAR), 21-hours**
- 2020 – *Virtual FARO Zone 3D Event Data Recorder – (FARO), 1.5-hours*
- 2020 – *Farm Machinery Safety Workshop – (WSU Extension Skagit County), 10-hours*
- **2020 - The Path to High-Level Autonomy for Commercial Vehicles – (SAE), 1-hour**
- **2020 – Chip-level Data Recovery: Understanding the Techniques – (NAPARS), 2-hours**
- 2020 – *Cloud Compare – ai2-3D, 6-hours*
- **2021 – Diamond Logic Builder Level 2 Retail Course - (Navistar), 2.50-hours**
- 2021 – *The CDR 900 Interface; Toyota TechStream / PCS & VCH Data, (WATAI), 2-hours*
- 2021 – *Using GoPro for Skid Testing & GoPro VBox Sport Data Import, (WATAI), 2-hours*
- 2021 – *Overview of 3D Forensic Methodologies, (WATAI), 2-hours*

Accreditations and Certifications

- **1992 – Technical Collision OJT, Washington State Patrol, 8-hours**
- **1994 – Technical Collision Certification, Washington State Patrol, 8-hours**



- **1996** – *Technical Collision Certification*, Washington State Patrol, 16-hours
- **1998** – *Technical Collision Certification*, Washington State Patrol, 8-hours
- **2000** – *Technical Collision Certification*, Washington State Patrol, 16-hours
- **2001** - *Accreditation Commission for Traffic Accident Reconstruction (ACTAR)*, 8-hours
- **2002** – *Technical Collision Certification*, Washington State Patrol, 8-hours
- **2005** – *Technical Collision Certification*, Washington State Patrol, 8-hours
- **2007** – *Technical Collision Certification*, Washington State Patrol, 8-hours
- **2009** – *Technical Collision Certification*, Washington State Patrol, 8-hours
- **2011** – *Technical Collision Certification*, Washington State Patrol, 6-hours
- **2013** – *Technical Collision Certification*, Washington State Patrol, 6-hours
- **2018** – *SAE Accident Reconstruction Certificate Program, 11.1 CEU*

Work Experience

April 2014 to Present – Owner / Reconstructionist of Wilcoxson Consulting LLC; Wilcoxson Consulting LLC provides high level expertise and knowledge in all crash investigations and specializes in heavy vehicle reconstruction.

July 2012 to April 2014 – Trooper Detective, Washington State Patrol; assigned to the Bellevue Criminal Investigation Division in the Investigative Services Bureau. ACTAR accredited crash reconstructionist and instructor.

February 1998 to July 2012 – Trooper Detective, Washington State Patrol; assigned to the Major Accident Investigation Team (MAIT) as a crash reconstructionist for conducting in-depth investigations to determine the factors significant in crash causation and injury production.

February 1990 to February 1998 – Trooper, Washington State Patrol; responsible for general patrol duties and collision investigations.

April 1989 to February 1990 – Trooper Cadet, Washington State Patrol

March 1989 to April 1989 – Technician, Boeing

May 1985 to March 1989 – In flight air refueler (boom operator) in the United States Air Force (USAF) on a KC-135Q model aircraft assigned to Beale Air Force Base, California. Honorably discharged at the rank of E-4; Sergeant.

Instructor Experience

Certified instructor by the Washington State Criminal Justice Training Commission (WSCJTC), guest presenter and lecturer on collision investigations and reconstruction issues at the following institutions and organizations:

- Society of Automotive Engineers (SAE)
- Royal Canadian Mounted Police (RCMP)
- University of Washington (UW)

- Washington State Patrol (WSP)
- Washington Association of Technical Accident Investigators (WATAI)
- Washington State Attorney General Office (WSAGO)
- Washington State Department of Transportation (WSDOT)
- Washington State Ferry (WSF)
- Western States Auto Theft Investigators (WSATI) Northwest Chapter
- Vehicle Maintenance Management Conference (VMMC)

Professional Associations

- **1998 to Present** - Washington Association of Technical Accident Investigators (WATAI)
- **2001 to Present** - The Accreditation Commission for Traffic Accident Reconstruction (ACTAR)
- **2007 to Present** - National Association of Traffic Accident Reconstructionists and Investigators (NATARI)
- **2004 to Present** - National Association of Professional Accident Reconstructionists Specialists (NAPARS)
- **2014 to Present** – Accident Reconstruction Communication Network (ARC)
- **2016 to Present** - Society of Automotive Engineers (SAE)
- **2020 to Present** – Institute of Traffic Accident Investigation (ITAI)

Authored/Co-Authored Publications/Presentations

- **2007** - *How Truck Data Collected by the Washington State Patrol is Utilized to Reconstruct Commercial Vehicle Crashes* (Washington State Patrol)
- **2009** – *Post Crash Commercial Vehicle Inspections; A Dirty but Crucial and Essential Job!* (CVSA Guardian Magazine)
- **2010** – *WSP Collision Tech Training: In-line Skid and Critical Speed Yaw Testing of a Passenger Vehicle* (Washington State Patrol)
- **2011** – *A Primer to Commercial Vehicle Rollover* (WATAI)
- **2013** – *Useful Apps for Crash Investigations* (WATAI)
- **2017** - *Acceleration Testing of 2016 Kenworth T680 with Automated Manual Transmission in Auto Mode* (SAE 2017-01-1418)
- **2017** - *Acceleration Testing of 2016 Freightliner Cascadia with Automated Manual Transmission in Auto Mode* (SAE 2017-01-1426)
- **2019** - *Evaluation of the Heavy Vehicle Event Data Recorder for the Freightliner New Cascadia with Detroit Diesel Engines* (SAE 2019-01-0636)
- **2019** - *Acceleration Testing of 2011 MCI J4500 45 foot Motor Coach* (SAE 2019-01-0409)
- **2019** - *Acceleration Testing of 2000 Van Hool 45 foot Motor Coach* (SAE 2019-01-04314)



- **2020** – *Using Freightliner New Cascadia ECM Data in Accident Reconstruction (NAPARS Joint Virtual Conference)*

Washington State Patrol Instructor Training

- District Training Officer (DTO)
- Flashlight Instructor
- ASP Instructor
- Firearms Instructor
- Side-handle Baton Instructor

References Available

(Current as of 15 May 2021)