

**David Carr**  
Collision Reconstructionist  
Augspurger Komm Engineering, Inc.  
3315 E. Wier Avenue  
Phoenix, AZ 85040  
(602) 443-1060  
(602) 443-1074 fax  
AKEINC.com

## **EDUCATION**

Wagner University – Master of Arts in Apostolic Leadership and Applied Theology (MAL) 2025  
Northwestern University School of Professional Studies 2021  
University of North Florida-Institute of Police Technology and Management 2015  
Arizona Law Enforcement Academy - (Rio Salado Community College) 2003  
Arizona Correctional Sergeant's Leadership Academy 2001  
Arizona Correctional Tactical Officers' Academy 2000  
Arizona Correctional Officer Training Academy - Tucson, AZ 1998  
New Mexico Correctional Officer Training Academy - Santa Fe, NM 1998  
Fresno City College - Fresno, CA 1995

## **SUMMARY**

David Carr is an experienced collision reconstructionist and Event Data Recorder (EDR) expert with over two decades of experience investigating and analyzing thousands of traffic collisions. As a retired Vehicular Crimes Detective, David served 20 years as a Certified Police Officer in Arizona, including 13 years of that assigned full-time to the Vehicular Crimes Squad. In that role, he responded to and investigated more than 700 fatal, high-profile, and serious-injury collisions, ranging from complex DUI cases to 2nd degree homicide collisions, and provided expert courtroom testimony at multiple levels.

David's investigative career required precision, technical knowledge, and the ability to apply physics, mathematics, and engineering principles to real-world events. He has conducted hundreds of EDR downloads and analyses, supported high-profile reconstructions, and collaborated with traffic engineers on acceleration/deceleration testing, site obstruction analysis, and cause analysis for collision reconstructions. His work also extended into special projects involving pedestrian safety and child restraint systems, as well as addressing specific problems related to motorcycle and pedestrian collisions.

Since retiring from law enforcement, David has continued to consult as a private accident reconstructionist for law firms, insurance companies, and industry peers, bringing the same attention to detail and dedication to accuracy that defined his career as a police detective. He has actively participated in more than 27 instrumented crash tests, with results published in respected journals such as the Accident Reconstruction Journal and Collision Magazine. He has also presented at the national EDR Summit, further cementing his reputation as a thought leader in the field.

David's professional development includes thousands of hours of advanced training through IPTM (Institute of Police Technology and Management) and Northwestern University's Center for Public Safety. He has and still serves in leadership roles with Southwestern Association of

## **SUMMARY - CONTINUED**

Traffic Accident Investigators (SATAI), and maintains active memberships with NAPARS (National Association of Professional Accident Reconstruction Specialists), SAE International, and the International Network of Collision Reconstructionists (INCR).

## **EXPERIENCE**

2025-Present Augspurger Komm Engineering, Inc., Engineering Consultant  
2019-Present Impact Collision Forensics, LLC  
2010-2023 Glendale Police Department (AZ) - Vehicular Crimes Detective  
2007-2023 Glendale Police Department (AZ) – General Instructor  
2003-2010 Glendale Police Department (AZ) – Patrol/Field Training Officer  
1997-2003 Arizona Department of Corrections

## **AWARDS**

2023 Honorably retired from City of Glendale-AZ Police Department 04/21  
Meritorious Unit Citation – Vehicular Crimes Squad - 2020  
2009 Certificate of Appreciation A.S.U. Commencement w/ guest President Obama  
2008 Certificate of Appreciation from Glendale Explorer Post - Gang Training 09/07  
Meritorious Unit Citation-Patrol Squad for year 2007  
2003 Certificate of Appreciation from Chief of Police - Glendale PD 04/98  
Exemplary Service Award - NM Secretary of State  
1995 Certificate of Honor from Chief of Police - Clovis PD (CA)

## **PROFFESIONAL AFFILIATIONS**

Society of Automotive Engineers (SAE International) Member  
Southwestern Association of Traffic Accident Investigators (SATAI)  
*-Positions held Member, Board Member, Vice President, President, and Secretary*  
National Association of Professional Accident Reconstruction Professionals (NAPARS)

## **RESEARCH AND TESTING**

Mar 2021 Performed and participated in instrumented front or front and rear ABS braking with using a BMW R 1250 RT and Honda ST1300PA in Glendale, AZ.  
Mar 2021 Performed and participated in instrumented Suburban-to-Elantra rear-end and front into open door impacts in Glendale, AZ.

## **RESEARCH AND TESTING-CONTINUED**

- Jan 2020 Performed and participated in instrumented Pathfinder to Navigator and 528i to Genesis rear- end impacts, Pathfinder front and rear to barrier impacts, and 528i to mattress, ladder, pallet, bicycle and couch impacts with instrumented volunteers and an ATD, and instrumented Navigator to bicycle broadside, Genesis to Cobalt broadside and Pathfinder steering testing, 528i with an instrumented human driver and ATD in broadside and rear-end impacts to a manikin on an electric scooter, and an angled head-on collision between a Navigator and 528i.  
*Results presented at EDR Summit, March 2020, Houston, TX.*
- July 2019 Performed and participated in instrumented Toyota Techstream Vehicle Control History testing with a 2019 Camry in Glendale, AZ.  
*Results published in Collision: The International Compendium for Crash Research, 2019. Results presented at EDR Summit, March 2020, Houston, TX.*
- Jan 2019 Performed and participated in instrumented remote driven broad-side rollover collision between a Tahoe and Grand Marquis, a multiple vehicle rear-end impact with a Towncar, motorcycle and Prius, and yaw testing with a Suburban in Glendale, AZ.  
*Results presented at SATAI conference, January 2019, Glendale, AZ.  
Results published in Collision: The International Compendium for Crash Research, 2019.*
- Jan 2019 Performed and participated in rear-end impacts between an Impala and Grand Marquis with instrumented volunteers in Glendale, AZ.
- Jan 2018 Performed and participated in sideswipe, angled broadside, offset rear-end impacts between a Malibu and Mustang, child pedestrian and pedacyclist dummy impacts with a Malibu and Tahoe, and Mustang and Malibu to Tahoe hitch impacts with instrumented volunteers in Glendale, AZ.  
*Results presented at SATAI conference, January 2018, Glendale, AZ.*
- March 2017 Performed and participated in Motorcycle Deceleration testing on an overpass (N 67th Ave and W. Northern Ave). Instrumented motorcycle deceleration measured at multiple speeds to replicate deceleration during actual crash in Glendale AZ.  
*Results used for Superior Court case – Plea Agreement reached*
- Oct 2016 Performed and participated in instrumented remote driven Celica into an angled head-on with a Ranger, and Massive Moving Barrier to Oldsmobile 98 and Expedition with child safety seat restrained 3-year-old dummies in Glendale, AZ.  
*Results presented at SATAI conference, September 6-8, 2016, Glendale, AZ.*

## **RESEARCH AND TESTING-CONTINUED**

- Dec 2015      Performed and participated in instrumented Grand Caravan head-on to a Prelude with an instrumented human driver, in Glendale, AZ.
- Sept 2015      Performed and participated in instrumented Focus and Ram 1500 to pedestrian dummy, Crown Victoria to Focus sideswipe, and Ram 1500 head-on to a Prelude impacts with an instrumented human and Hybrid III dummy, in Glendale, AZ.  
*Results presented at SATAI conference, September 10-12, 2015, Glendale, AZ.*
- Sept 2014      Performed and participated in instrumented Camry to pedestrian dummy impacts, a remote driven BMW 740 IL to Camry to Volvo 850 chain reaction rear-end impact, and Volvo 850 to motorcycle with a ped dummy rider impacts, in Glendale, AZ.  
*Results presented at SATAI conference, September 25-27, 2014, Glendale, AZ.*
- Sept 2014      Performed and participated in Motorcycle Testing Acceleration factors and Motorcycle drag factors sliding side down on asphalt in Chandler, AZ.  
*Results as part of IPTM course- Investigation of motorcycle collisions.*
- April 2014      Performed and participated in Vericom skid testing in a Ford Crown Victoria establishing drag factors and acceleration rates in Gilbert, AZ.  
*Results as part of Vericom familiarization course hosted by Vericom.*
- Sept 2013      Performed and participated in instrumented remote driven Chrysler Lebaron and Oldsmobile Intrigue intersection type collisions, and a remote driven Cadillac Seville in a deep pit vault in Glendale, AZ.  
*Results presented at SATAI conference, September 27-28, 2013, Glendale, AZ.*
- Oct 2012      Performed and participated in Vericom skid testing in a Ford Crown Victoria to establish drag factors and acceleration rates on a specific road surface in Glendale, AZ.
- Sept 2012      Performed and participated in instrumented remote driven Grand Prix and Impala rear-end and broadside impacts to the trailer of a Volvo Tractor-Utility Trailer combination and instrumented demonstration of tractor-trailer acceleration while turning at an intersection in Glendale, AZ.  
*Results presented at SATAI conference, September 28-29, 2012, Glendale, AZ.*
- Jan 2012      Performed and participated in vehicle collisions striking an adult pedestrian dummy and adult dummy on bicycle in Casa Grande, AZ.  
*Results as a part of IPTM Course-Pedestrian and Bicycle Crash Investigations*

## **RESEARCH AND TESTING-CONTINUED**

- Sept 2011 Performed and participated in instrumented rollover of a remote driven Ford Super Club Wagon (15 passenger) and an offset head-on impact between a remote driven Oldsmobile Cutlass Ciera and a remote driven Kia Spectra in Glendale, AZ.  
*Results presented at SATAI conference, September 23-24, 2011, Glendale, AZ.*
- May 2011 Performed and participated in measuring pedestrian velocity/speed rate while walking. Speeds were categorized by age range at Glendale Community College, Glendale, AZ.  
*Results were a part of AZ POST Reconstruction II Course.*
- April 2011 Performed and participated in vehicle acceleration rates from stop light. Acceleration rates grouped by gender and vehicle type in Phoenix, AZ.  
*Results were a part of AZ POST Reconstruction I Course.*

## **COLLISION AND INVESTIGATION RELATED EDUCATION**

- 01/22 National Computer Forensic Institute-Vehicle Forensic Course (Berla)
- 11/21 Heavy Vehicle Electronic Control Module Data Use in Crash Recon.
- 06/21 Crash Investigation 2 Online- Northwestern Center for Public Safety
- 05/21 Pix4D Mapper Course – Innovative UAS LLC.
- 05/21 Custom Drone Operations (Nighttime Operations) – Vector Solutions
- 04/21 FAA Part 107 Remote Pilot Certified (Certificate #4501732)
- 04/21 Unmanned Aircraft Systems Basic Pilots Course, LACRTC
- 03/21 Crash Investigation 1, Northwestern Center for Public Safety, Online
- 08/19 IPTM ACTAR Prep Part 2 Online
- 07/19 Motor Vehicle Accident Reconstruction & Cause Analysis (Rudy Limpert)
- 01/19 Human Factors for Collision Reconstruction (Crash Safety Solutions)
- 09/18 IPTM Online Roadway Evidence Course (1 hour)
- 09/18 IPTM Online Safety Belt Examinations (1hour)
- 08/18 3Day low light-Flash Photography Course (24 hrs.) – Forza Forensics
- 06/18 Webinar – Infotainment Ive Data Validation Testing (Wes Vandiver -Berla Corp)
- 02/18 Certified Child Passenger Safety Technician # T773817 (Safe Kids)
- 12/17 Arizona P.O.S.T. Driving Instructor Training Program
- 11/17 Collision Safety Institute-CDR Data Analyst Course
- 10/17 Using Microsoft Excel in Traffic Crash Reconstruction
- 07/17 Collision Safety Institute-CDR Technician Course
- 12/16 Motor Vehicle Accident Reconstruction & Cause Analysis (Rudy Limpert)
- 03/16 IPTM Human Factors in Traffic Crash Reconstruction
- 09/15 IPTM Traffic Crash Reconstruction
- 02/15 IPTM Advanced Pedestrian/ Bicycle Investigation
- 11/14 Traffic Lidar Operator Competency Training

## **COLLISION AND INVESTIGATION RELATED EDUCATION - CONTINUED**

- 09/14 Tire Mechanics & Inspection/ Forensic Tire Examination  
(TRG Tech Tire Consulting Inc.)
- 09/14 IPTM Investigation of Motorcycle Crashes
- 04/14 Acceleration and Vericom Familiarization (Vericom Computers Inc.)
- 10/13 Certified Forensic Mapping Technician Course
- 09/13 IPTM Event Data Recorder use in Traffic Crash Reconstruction
- 02/13 Traffic Incident Management
- 10/12 CDR Technician 1 and 2 (Collision Safety Institute)
- 09/12 CDR Analyst certification (Collision Safety Institute)
- 09/12 Instructor/Advanced Collision Inv. for Patrol Officers
- 01/12 IPTM Pedestrian/Bicycle Crash Investigation
- 11/11 IPTM - At Scene Traffic Crash/ Traffic Homicide Investigation
- 08/11 Grade Crossing Collision Investigation (BNSF Railway Company)
- 08/11 IPTM - Advanced Traffic Crash Investigations
- 06/11 Traffic Collision Reconstruction III
- 05/11 Traffic Collision Reconstruction II
- 04/11 Traffic Collision Reconstruction I
- 12/10 Advanced Collision Investigations
- 09/03 Doppler Radar Certification

## **PROFESSIONAL PUBLICATIONS**

Carr, David. (2021). Aftermarket ECU's for crash reconstruction in a growing UTV market. *Collision Magazine: The International Compendium for Crash Research*, 15(1), 40-43.

## **PROFESSIONAL PRESENTATIONS**

March 2020 Presented a collision case and ECU Master review. UTV rollover which was equipped with ECU Master custom Engine control Module. Data collected from unit was analyzed and compared to collision reconstruction.  
*Presentation during EDR Summit 2020, Houston TX*

## **CONTINUING EDUCATION**

- 01/24 SATAI Winter Conference (Glendale AZ)
- 03/23 SATAI Spring Conference (Glendale AZ)
- 02/22 SATAI Winter Conference (Glendale AZ)
- 01/21 SATAI Crash Sequences for Conference (Glendale AZ)
- 03/20 Event Data Recorder (EDR) Summit

**CONTINUING EDUCATION-CONTINUED**

01/20 SATAI Winter Conference (Glendale AZ)  
07/19 SATAI Summer Conference (Glendale AZ)  
07/19 GOHS Law Enforcement and Prosecutors Training Conference  
01/19 SATAI Winter Conference (Glendale AZ)  
07/18 SATAI Summer Conference (Henderson NV)  
01/18 SATAI Winter Conference (Glendale AZ)  
12/17 Phlebotomy Refresher – Phoenix College  
08/17 Webinar-Interpreting Blood Cannabinoids Markers of recent Cannabis use  
(NMS Labs – Professor Dr.(h.c.) Marilyn A. Huestis)  
03/17 SATAI Spring Conference (Henderson NV)  
03/17 HGN/SFST Technician Skills Refresher Course  
06/16 GOHS Law Enforcement and Prosecutors Training Conference  
04/16 Drug Recognition Expert Instructor  
03/16 SATAI Spring Conference  
09/15 SATAI Fall Conference  
07/15 GOHS Law Enforcement and Prosecutors Training Conference  
09/14 SATAI Fall Conference  
08/14 Law Enforcement Phlebotomy Refresher Training (Phoenix College)  
07/14 20th Annual IACP Training Conference, Phoenix, AZ.  
07/14 DRE In-Service Training (8 Hours)  
09/13 SATAI Fall Conference  
06/13 DRE In-Service Training (8 Hours)  
11/12 HGN Instructor Certification  
09/12 SATAI Fall Conference  
04/12 Law Enforcement Phlebotomy Refresher Training (Phoenix College)  
09/11 SATAI Fall Conference  
08/10 Phoenix College- Certificate of completion LE Phlebotomy (Phoenix College)  
07/10 16th Annual IACP Training Conference, Pittsburgh PA.  
02/09 DRE School  
01/09 DRE Preschool  
01/09 Advanced Roadside Impaired Driving Enforcement 03/06 HGN/SFST Certification