

Curriculum Vitae

Van D. Kirk
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January 1, 2022 to Present

- ***Kirk Auto Group, Inc.*** began doing business as: Collision Reconstruction Associates

1998 through December 31, 2021

- President, ***Kirk Auto Group, Inc.***, a Kentucky Corporation – August 1998
- Research, documentation and expert testimony for automobile, motorcycle and commercial vehicle inspection, testing, consultation, crash reconstruction, vehicle crash dynamics, crash scene documentation and mapping, crash data downloads, and 3D computer crash animations.
- Became a member of Collision Reconstruction Associates, LLC, 2005
- Dissolved Collision Reconstruction Associates, LLC on December 31, 2021

1996 to August 14, 2009

- ***Van Kirk's Before You Buy, Inc.*** acquired and began doing business as Auto Tech Service in Lexington, KY, from February 1996 - August 2009
- Performed complete auto service and repair
- Selected as *Top Ten Auto Repair Shops in the USA 1997*
- Dissolved Van Kirk's Before You Buy, Inc on August 14, 2009, upon sale of Before You Buy Auto Inspections and Auto Tech Service

1995 to August 14, 2009

- President, ***Van Kirk's Before You Buy, Inc.***, a Kentucky Corporation doing business as: Before You Buy Auto Inspections, vehicle inspections and reports
- June 1995 - August 2009

1990 – 1995

- Vice President, Director of Operations, Computer Tune Lexington
Selected as *Best Auto Repair Shop in the USA 1993*

1980 – 1990

- General Manager, Precision Tune, Lexington, KY – Four franchise facilities

1972 – 1980

- Automotive Service Technician, Lincoln-Mercury, Ford, Sears, Firestone

Kirk Auto Group, Inc., dba Collision Reconstruction Associates (CRA), is wholly owned by Van D. Kirk. CRA operates in association with JDK Auto, LLC, wholly owned by Jesse D. Kirk. Since 2005 CRA has performed more than 1000 traffic crash investigations and / or reconstructions. These services have involved passenger automobiles and trucks, commercial vehicles, motorcycles, bicycles, pedestrians, farm and commercial equipment, automotive fire source and origin and more. Since 1995, Van Kirk has also personally completed or supervised more than 5,000 individual vehicle inspections and reports including value and diminished value appraisals. In his professional career, Mr. Kirk has performed or supervised more than 50,000 automotive repairs or services.

A current four-year Rule 26 Testimony list is available on request.

Mr. Kirk's Professional Automotive Credentials/Certifications:

- ASE Certified Automobile Technician, 1976
- ASE Certified Master Automobile Technician (CMAT) 1993
- ASE Certified L1 Advanced Level Technician, 1994
- AMI Accredited Automotive Manager (AAM), Texas, Graduation 1997

Mr. Kirk's Institute of Police Technology and Management Reconstruction Credentials

- At Scene Traffic Crash & Traffic Homicide Investigation, December 2010
- Advanced Traffic Crash Investigation, March 2015
- Traffic Crash Reconstruction, August 2017

Samples of IPTM (UNF) Training, Classes & Seminars since 2005

- Digital Photography for the Crash Investigator
- Spin Analysis Case Study
- Forensic Animation: ARAS 360, Visual Statement Fx3 - fp7
- Discover What Can Lead to Tire Failure
- From Scene to Courtroom
- National Highway Traffic Safety Administration – Crash Investigation Program Overview
- Analysis of the GM SDM in 360 Degree Linear Momentum Collisions
- Proper Application of Drag Coefficients to ABS Affected Yaw and Skid
- Balancing Collision Forces in Crush / Energy Analyses
- Correlation of Rotational Velocity and Linear Displacement Over Post Impact Trajectories
- General Motors – New SCM Technology – Epsilon Series
- Crush Damage Measuring Techniques
- Rollover
- Energy Absorption Crash Attenuators (Commercial Trucks)
- Pole Strikes
- Crush Analysis with Underrides and Coefficient of Restitution
- Validation of Low Speed Off-Tracking
- Delta V (Change in Speed over Time)
- 2021 EDR Update
- Scene Maps and Diagrams
- Accessing Toyota Vehicle Control History and Collision Avoidance Data
- Using EDR Delta-V to Calculate Closing Speed and Impact Speed – Advanced Concepts
- Airborne Vehicle Methodologies

- Full-Scale Crash Testing Through the Years
- Capturing Data Using UAV, GNSS, Scanner and Total Station Toolbox
- Kawasaki EDR
- Distracted Driving: Causes and Consequences
- Bicycle Performance and Handling
- 2022 GM EDR Update
- Autonomous Vehicle and Advanced Driver Assistance Systems
- Retroreflective Materials for Accident Reconstruction
- Trailer Dynamics and Trailer Crashes
- The Traffic Signal as an EDR; Did it Record Your Crash?
- Takata Airbag Inflator Investigations
- Forensic Investigation of Lessor Collision Events

Houston, Texas	<i>Bosch Collision Data Recorder Conference</i>	2008 & 2009
Lexington, KY Metro PD	<i>Event Data Recorder Use in Traffic Crash Reconstruction</i>	2010
Oldham County, KY SD	<i>Advanced Crash Animation and Total Station Operation</i>	2010
Boca Raton PD, Florida	<i>ARAS 360 Advanced 3D Computer Diagramming</i>	2011
FARO International Training	<i>ARAS 360 HD Advanced 3D Computer Diagramming Online</i>	2012
Lexington, KY	<i>Bosch Collision Data Recorder Technician Online IPTM</i>	2013
N Charleston, SC PD	<i>ACTAR Test Preparation Course</i>	2015
WREX 2016 Orlando, FL	<i>WREX 2016 World Reconstruction Exhibition</i>	2016
NAPARS National Training	<i>NAPARS 7 Day Conference 5 Categories</i>	2020
FARO International Training	<i>FARO 36 Categories</i>	2020
EXPONENT Internat'l Training	<i>Human Factors in Automobile Accidents</i>	2021
IPTM Symposium, Orlando FL	<i>IPTM Seminars, 9 Categories, with physical Crash Tests</i>	2021
IPTM Symposium, Orlando FL	<i>IPTM Seminars, 9 Categories, with physical Crash Tests</i>	2022

Professional Memberships & Board Positions:

- Society of Automotive Engineers (SAE), 2006 to present
- International Network for Collision Reconstructionists (INCR)
- National Association of Professional Accident Reconstructionists (NAPARS)
- Accident Reconstruction Network (ARC)
- AAIA National Board of Directors Mechanical Committee, 2005-2006
- Automotive Service Association, (ASA) 1992 to 2009
- Professional Master Technicians Association, President (1997-98), Past Treasurer, Charter Member, Advisor, 1988-2009
- Bluegrass Independent Garage Owners Association, President and Chair, 1997-2003; Board of Directors, 2003-2009,
- Newton's Attic, Board of Advisors, (Middle and High School Math and Physics) 2005-2010
- "Bluegrass Car Care Clinic", Former Chair, 1990-2009
- Lexington Partnership for Workforce Development, Former Board Director, 2000-2008
- Central Kentucky Technical College, Board of Advisors 1990 - 2010

- Eastside Center for Applied Technology, Member, Board of Advisors 1988 - 2010
- “School to Beyond”, Fayette Co. Public Schools, Member, Board of Advisors 1995 – 2005
- ASE (National Institute for Automotive Service Excellence) Certification Test Questionnaire Development National Panelist

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