

CURRICULUM VITAE OF DANIEL MCLAIN

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SUMMARY

Dan McLain is a traffic collision reconstructionist accredited by the Accreditation Commission for Traffic Accident Reconstruction (ACTAR), a sUAV (drone) pilot licensed by the Federal Aviation Administration, and has completed the Accident Reconstruction Certificate Program by the Society of Automotive Engineers (SAE). With over 27 years in law enforcement, he has extensive experience with on-scene collision investigations ranging from minor fender-benders to multi-fatal collisions. He has investigated and assisted in the prosecution of hit-and-run collisions, DUI collisions, insurance fraud, vehicular manslaughter, and vehicular murder cases. He is recognized as a subject matter expert in both criminal and civil courts for his knowledge of accident reconstruction, accident investigation, and general traffic enforcement.

Dan has over a thousand hours of training in accident reconstruction including but not limited to forensic mapping, pedestrian collisions, motorcycle collisions, emergency vehicle collisions, Crash Data Retrieval (CDR), staged collisions, interview and interrogations, and motor vehicle inspections. He also has over 13 years of experience teaching primary collision factors, investigation procedures, vehicle/evidence photography, insurance fraud, tire mark analysis, and basic collision reconstruction to law enforcement agencies all over Southern California at a prestigious law enforcement academy as well as the National Insurance Crime Bureau.

WORK EXPERIENCE

Owner and Principal at DHM Crash Consulting and Accident Reconstruction Services, LLC
September 10, 2022 – Present

Accident Reconstruction Expert at Kauderer & Associates, LLC
February 2023 – Present

Accident Reconstruction Expert at Impact General, Inc.
January 2022 – February 2023

Orange County Sheriff's Department
January 3, 1995 – September 9, 2022

- Sergeant, City of Rancho Santa Margarita – July 17, 2020 – September 9, 2022
- OCSO sUAV Drone Pilot - January 3, 2022 - September 9, 2022
- Sergeant Central Men's Jail – March 16, 2018 – July 17, 2020
- Background Investigator – October 14, 2016 – March 16, 2018
- Motor Deputy – March 2014 – October 14, 2016
- Patrol Deputy – June 2012 – March 2014
- Traffic Bureau - December 2008 – June 2012
- Motor Deputy – May 2006 – December 2008
- Traffic Enforcement Deputy - July 2004 – May 2006
- Patrol Deputy - September 2003 – July 2004 (traffic position disbanded)
- Traffic Enforcement Deputy – September 2002 – September 2003
- Patrol Deputy – December 2001 – September 2002
- Deputy Sheriff II Central Men's Jail – June 30, 2001 – December 14, 2001
- Deputy Sheriff I Central Men's Jail – June 21, 1995 – June 30, 2001
- Deputy Sheriff Trainee Orange County Sheriff's Academy – January 3, 1995 – June 21, 1995

TRAFFIC RELATED EXPERIENCE

- Major Accident Reconstruction Team (M.A.R.T.) Member October 2003 – February 2016
- Participated in investigation/reconstruction of over 104 fatal/major injury collisions
- Case Agent on 20 of those fatal/major injury collisions
- Investigated over 400 minor and moderate injury collisions
- Investigated over 175 crime related collisions
- Investigated over 650 non-injury collisions
- Assisted civilian & patrol officers in interviews, scene documentation and determination of fault in thousands of non-injury and minor injury collisions
- Witnessed and issued citations for over 2550 speeding violations
- Witnessed and issued citations for over 2090 right-of-way and other unsafe violations

Langner Security Services

July 1994 – December 1994

United States Marine Corps

June 25, 1990 – June 24, 1994

- Camp Pendleton, CA - February 21, 1992 – June 24, 1994
- Okinawa, Japan – February 21, 1991 – February 20, 1992
- Marine Corps Training – June 1990 – February 1991

EDUCATION

BS California Coast University, Criminal Justice May 2020
Graduated Summa Cum Laude

PROFESSIONAL LICENSES AND CERTIFICATIONS

Accreditation Commission for Traffic Accident Reconstruction 2011
ACTAR #2304

Federal Aviation Administration 2021
FAA 14 CFR Part 107 licensed small Unmanned Aerial Vehicle Pilot

California Peace Officer's Standards in Training 1995
Ca POST certifications; Basic, Intermediate, Advanced, and Supervisory

PROFESSIONAL TRAINING

Basic Traffic Collision Investigation Mar 2002 (40 hrs)
Orange County Sheriff's Department

RADAR Operator Course Nov 2002 (40 hrs)
Los Angeles Police Department

LIDAR Operator Course Dec 2002 (8 hrs)
Los Angeles Police Department

Intermediate Traffic Collision Investigation Mar 2003 (40 hrs)
Riverside County Sheriff's Department

Advanced Traffic Collision Investigation Apr 2003 (80 hrs)
Riverside County Sheriff's Department

Traffic Accident Reconstruction Apr 2004 (80 hrs)
Riverside County Sheriff's Department

Motorcycle Accident Investigation and Reconstruction Apr 2006 (24 hrs)
Institute of Police Technology and Management (IPTM)

CadZone Crime and Crash Diagramming Jul 2007 (24 hrs)
Kent E. Boots & Associates

Bosch Crash Data Retrieval Technician/Analyst Los Angeles County Sheriff's Department	Apr 2009 (40 hrs)
Basic Motor Vehicle Inspection Riverside County Sheriff's Department	Dec 2009 (40 hrs)
Vehicle/Pedestrian Collision Reconstruction Rudy Degger and Associates	Apr 2012 (40 hrs)
Interview and Interrogations for Collision Investigators Institute of Police Technology and Management (IPTM)	Jul 2012 (40 hrs)
Vehicle Dynamics and Energy Analysis Riverside County Sheriff's Department	Apr 2021 (40 hrs)
Vehicle Crash Reconstruction: Principles and Technology Society of Automotive Engineers International (SAE)	Jun 2021 (24 hrs)
Photogrammetry and Analysis of Digital Media Society of Automotive Engineers International (SAE)	Sep 2021 (24 hrs)
Fundamentals of Vehicle Dynamics Society of Automotive Engineers International (SAE)	Sep 2021 (18 hrs)
Reconstruction and Analysis of Motorcycle Crashes Society of Automotive Engineers International (SAE)	Dec 2021 (8 hrs)
Driver Distraction from Electronic Devices: Insights and Implications Society of Automotive Engineers International (SAE)	Jan 2022 (4 hrs)
Applying Automotive EDR Data to Traffic Crash Reconstruction Society of Automotive Engineers International (SAE)	May 2022 (24 hrs)
PhotoModeler for Collision Investigation PhotoModeler Technologies	June 2023 (32 hrs)
Photography for Accident Reconstruction, Product Liability, and Testing Society of Automotive Engineers International (SAE)	Dec 2023 (24 hrs)
Advanced Photogrammetry for Collision Reconstruction Lightpoint Scientific, LLC	Mar 2024 (24 hrs)

TEACHING EXPERIENCE

Basic Traffic Collision Investigation

Nov 2009 to Present

Rancho Santiago Community College District

- Primary Collision Factors and CA Vehicle Code Laws
- Insurance Fraud
- Investigation Procedures
- Tire Mark analysis
- Vehicle factors as evidence
- Scene measurements, photography, and documentation

Accident Reconstruction by Drone

March 2024 to Present

North Orange County Community College District

- Use of a small Unmanned Aerial Vehicle (sUAV) as it applies to Crash Reconstruction
- Determine normal vehicle speeds on a roadway
- Determine normal acceleration rates of vehicles from a stop
- Use of a sUAV to photograph vehicles and create 3D point clouds for use in damage energy (crush) analysis
- Use of a sUAV to photograph roadways and intersections to create 2D orthographic photographs and 3D point clouds for momentum analysis and crash simulations

Crash Data Retrieval Technician, Level I and II

Jan 2012 to Jan 2014

Robert Bosch, LLC

- Use of the Bosch Crash Data Retrieval Tool and proper methods for crash data collection.

Basic Accident Reconstruction

May 2016

National Insurance Crime Bureau, Special Investigator Academy

- Basic accident reconstruction methodologies and methods.
- Use of the Bosch Crash Data Retrieval Tool and it's benefits to the insurance investigator in recognizing fraudulent claims.

PROFESSIONAL AFFILIATIONS

California Association of Accident Reconstruction Specialists (CA ² RS)	
Member	Oct 2003 – Present
Board of Directors	Nov 2022 – Present
Secretary, Board of Directors	Jan 2023 – Present
National Association of Accident Reconstruction Specialists (NAPARS)	
Member	Apr 2020 – Present
Southwestern Association of Technical Accident Investigators (SATAI)	
Member	Jul 2023 – Present
Southern California Traffic Investigator's Association (SOCTIA)	
Member	Jan 2009 – Sep 2022
Orange County Traffic Officer's Association (OCTOA)	
Member	Jun 2005 – Sep 2022
International Association of Special Investigator Units (IASIU)	
Member	Dec 2015 – Dec 2016
Association of Orange County Deputy Sheriffs (AOCDS)	
Member	Jan 1995 – Present
Avoid the 13 DUI Task Force	
Member	July 2004 – Oct 2016