



# Kauderer & Associates

Traffic Accident Reconstruction Experts

## CURRICULUM VITAE OF JOEL SALINAS, ACTAR

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### PROFESSIONAL CREDENTIALS

Full Accreditation as a Traffic Accident Reconstructionist (ACTAR #1569)  
State of California - Commission on Peace Officer Standards and Training (POST) - Basic, Advanced, Supervisory, and Management Certificates  
Certified Instructor for ARAS 360, CadZone, IMS / MapScenes, and Visual Statement software

### EMPLOYMENT HISTORY

Joel Salinas & Associates, Redding, CA	2006 – Present
Vallejo Police Department, Vallejo, CA	1988 – 2012 (Retired)
California Highway Patrol, Oakland, CA	1984 – 1988
Santa Rosa Junior College, Santa Rosa, CA	2012 – 2018
Contra Costa County, Martinez, CA	2010 – 2017

### EDUCATIONAL BACKGROUND

Saint Mary's College, Moraga, CA, 1991	B.A. Degree – Management
Solano Community College, Suisun, CA, 1988	A.S. Degree – Criminal Justice

### SPECIALIZED TRAINING

- IAFSM Laser Scanning Conference, 50 hrs, San Diego, CA 2024
- IMS Map360 Instructor Recertification Course, 30 hrs, Vancouver, BC 2023
- WREX Crash Reconstruction Conference, 40 hrs, Orlando, FL 2023
- Leica GS18T with Captivate – GPS Mapping, 16 hrs, CFS, Bend, OR 2022
- Advanced Photogrammetry for Collision Reconstruction, 32 hrs, Lou Peck, Tempe, AZ, 2022
- SATAI Conference – 8 hrs, Glendale, AZ, 2022
- AutoCAD 2021 Course – Online, 7.5 hrs, 2021
- Pix4D Certification Course – Online, 2021
- Pix4D Essentials and In-Depth Courses – Online, 24 hrs, 2021
- Virtual Crash Software Course – 20 hrs, Forensic Training Group, Reno, NV 2021
- FAROZone Crash Reconstruction Virtual Workshop – Online, 10 hrs, 2021
- IMS Map360 Version 4 Training Course – Online, 22 Courses, 2020
- IAFSM Conference – Laser Scanner Certification Course, 16 hrs, Nashville, TN, 2020
- CA2RS Conference – Crash Reconstruction Methods, 16 hrs, Palm Desert, CA, 2019
- Advanced Photogrammetry for Collision Reconstruction, 24 hrs, Lou Peck, CA, 2019
- Aerial Photogrammetry Using Pix4D for Crash and Crime Scenes, 24 hrs, Andy Klane, CA 2019
- Using Pix4D in Collision Investigations, Greg Russell, 32 hrs, Columbus, OH, 2018
- Pix4D Mapper Photogrammetry Training, Aerial-Metrics, 24 hrs, Gurnee, IL, 2017
- CA2RS Conference – Crash Reconstruction Methods, 16 hrs, Anaheim, CA, 2017
- NUCPS 2-Day SUAS Crash Investigation Remote Pilot Training, 16hrs, Lincolnshire, IL
- Pix4D Software 3-Day Public Safety Workshop, 24 hrs, Kansas City, MO, 2017
- Drone Maintenance and Repair, Drone University, 8 hrs, Sacramento, CA, 2017
- Hexagon Conference - Leica Laser Scanning & Cyclone Training, 16 hrs, Las Vegas, NV, 2017
- SUAS Operations, Drone University, 16 hrs, Sacramento, CA, 2017

- Rhino 5 / HVE Software Training, 16 hrs, Sacramento, CA, 2017
- Pix4D Software Training, 16 hrs, Seattle, WA, 2017
- CA2RS Conference - Crash Reconstruction Methods, 20 hrs, South Lake Tahoe, CA, 2016
- WREX Crash Reconstruction Conference, 40 hrs, Orlando, FL, 2016
- Leica GS14 GPS Training, 8 hrs, Redding, CA, 2016
- IMS Software Training, 16 hrs, Kelowna, BC, Canada, 2015
- Hexagon Conference - Leica Laser Scanning & Cyclone Training, 8 hrs, Las Vegas, NV, 2015
- Leica Scanner Update – P16, P30, P40, 3 hrs, Houston, TX, 2015
- Emergency Vehicle (EVOC) Workshop - SRJC, 8 hrs, Santa Rosa, CA, 2015
- ARAS Reality Software Training, 24 hrs, Online Course, 2014
- CA2RS Conference - Crash Reconstruction Methods, 20 hrs, South Lake Tahoe, CA, 2014
- Crash Data Retrieval System - Technician Course, 16 hrs, CSI, Sacramento, CA, 2014
- NAPARS Conference - Crash Damage Energy, 20 hrs, Portland, ME, 2014
- Hexagon Conference - Leica Laser Scanning & Cyclone Training, 16 hrs, Las Vegas, NV, 2014
- EDC - HVE 2014 Forum - HVE 2D Training, 32 hrs, St. Petersburg, FL, 2014
- Advanced Traffic Crash Reconstruction with HVE-CSI, 40 hrs, Jacksonville, FL, 2013
- CA2RS Conference – Commercial Vehicle Topics, 20 hrs, Long Beach, CA, 2013
- Advanced MapScenes Training, GoToForensics On-Line Course, 20 hrs, 2013
- CadZone – Point Cloud Software Training, 16 hrs, Beaverton, OR, 2013
- IPTM – Applied Physics for Traffic Crash Investigators, 40 hrs, Vancouver, WA, 2012
- ARAS 360 HD – Advanced Computer Diagramming, 24 hrs, Sacramento, CA, 2012
- CA2RS Conference – Crash Reconstruction Topics, 20 hrs, Anaheim, CA, 2011
- Rhino 3D Software Training – 24 hrs, 2011
- Leica Scanner Basic Training Course, 30 hrs, Austin, TX, 2011
- ARAS 360 – Animation Course, 24 hrs, Vallejo, CA, 2011
- CA2RS Conference – Crash Reconstruction Topics, 20 hrs, South Lake Tahoe, CA, 2010
- MapScenes Point Cloud, 24 hrs, Kelowna, BC, Canada, 2010
- Visual Statement – Edge FX, 24 hrs, Pleasant Hill, CA, 2010
- ARC-CSI Conference, 20 hrs, Las Vegas, NV, 2010
- EDC - HVE 2010 Forum – Using EDCrash and EDSMAC, 20 hrs, San Antonio, TX, 2010
- IPTM - Energy Methods and Damage Analysis, 40 hrs, Tempe, AZ, 2009
- CA2RS Conference - Crash Reconstruction Topics, 20 hrs, Anaheim, CA, 2009
- Leica Scanner Training Course, 40 hrs, San Ramon, CA, 2009
- DUI Standardized Field Sobriety Testing (SFST), 16 hrs, CHP, Vallejo, CA, 2009
- Autodesk - 3D Studio Max Level 1, 32 hrs, Mark Gerhard, Napa, CA, 2009
- IPTM - Motorcycle Crash Investigation, 40 hrs, Al Baxter, Vallejo, CA, 2009
- Google SketchUp Training, Essentials to Advanced Skills, 16 hrs, Mike Tadros, Davis, CA, 2009
- EDC - HVE - EDC Simulations Using HVE, 36 hrs, Terry Day Northridge, CA, 2009
- CA2RS Conference - Crash Reconstruction Topics, 12 hrs, Sacramento, CA, 2009
- Advanced MapScenes 3D and Capture Training, 40 hrs, Kelowna, BC, Canada, 2008
- CA2RS - Vehicle Factors in Crash Reconstruction, 8 hrs, Kent E. Boots, Sacramento, CA, 2008
- Crash Data Retrieval System – Technician Course, 8 hrs, FactualDiagrams.com, Vallejo, CA, 2008
- PSFM - Forensic Mapping System - Recertification Program, Jacksonville, FL, 2008
- IPTM - Special Problems - Traffic Crash Reconstruction, 36 hrs, Jacksonville, FL, 2008
- Crash Data Retrieval - User's Conference, 20 hrs, Houston, TX, 2008
- CA2RS - Bicycle Collision Investigation, 8 hrs, Roman Beck, Vallejo, CA, 2008
- Traffic Collision - Vehicle Dynamics, 40 hrs, Contra Costa S.O., CA, 2007
- CA2RS Conference - CA2RS Toolbox, 20 hrs, Anaheim, CA, 2007
- CA2RS - Vehicle Damage & Crush Measurement, 8 hrs, Boots & Kauderer, Healdsburg, CA, 2007
- CadZone Instructor - Certified as a CadZone Instructor, Sacramento, CA, 2007
- MapScenes Instructor Training Course, 24 hrs, MapScenes, Las Vegas, NV, 2007
- CA2RS - Forensic Mapping Revisited, 8 hrs, Mick Capman, Vallejo PD, CA, 2007
- Forensic Mapping - MapScenes Certified Training Course, 80 hrs, Mike Selves, IA, 2007
- Cad Zone - Advanced Crash/Crime Scene Diagramming, 16 hrs, Contra Costa S.O. CA, 2007
- Forensic Mapping Training with MapScenes 2006, 40 hrs, Steve Gatterman, Vallejo, CA, 2007

- Vericom - Acceleration and Familiarization Course, 12 hrs, Vallejo PD, CA, 2007
- CA2RS - Crash Data Retrieval Technician Course, 8 hrs, Kent Boots, Vacaville, CA, 2007
- CA2RS Conference - Crash Reconstruction Start to Finish, 20 hrs, South Lake Tahoe, CA, 2006
- CadZone - Crash Zone Training Class, 40 hrs, George Maglaras, San Diego, CA, 2006
- Traffic Collision Reconstruction Level 2, 40 hrs, Contra Costa S.O., CA, 2006
- Pursuit Immobilization Technique (PIT) Instructor, 8 hrs, CHP Academy, CA, 2006
- Crash Data Retrieval - Technician & Analyst Course, 40 hrs, Rusty Haight, Vallejo PD, CA, 2006
- ARC-CSI Conference, 28 hrs, Las Vegas, NV, 2006
- Auto - Pedestrian Traffic Collision Investigation, 40 hrs, WeCare, Vallejo PD, CA, 2006
- Traffic Collision - Computer Aided Diagramming, 40 hrs, Contra Costa S.O., CA, 2006
- Crash Data Retrieval – User’s Conference, 16 hrs, Dallas, TX, 2006
- CA2RS - Anti-Lock Braking Systems, 8 hrs, Alan Coulter / Wes VanDiver, Vallejo PD, CA, 2006
- Forensic Mapping Training, 24 hrs, Sokkia Corporation - Duke Dutch, Vallejo, CA, 2005
- Forensic Mapping Training - MapScenes 2006 Update, 40 hrs, Steve McKenzie, Yuma, AZ, 2005
- CA2RS Conference - Investigating Emergency Vehicle Collisions, 20 hrs, Temecula, CA, 2005
- IPTM, Methodology and Techniques of Crash Data Retrieval, 24 hrs, San Jose, CA, 2005
- CA2RS - Commercial Vehicle Brake Inspections and Braking Efficiency, 8 hrs, Hayward, CA, 2005
- CA2RS - Forensic Mapping and Diagramming, 8 hrs, Duke Dutch, Stockton, CA, 2005
- CA2RS Conference - Motorcycle Investigation and Reconstruction, 20 hrs, Santa Rosa, CA, 2004
- CA2RS - Momentum Review, 8 hrs, Stockton, CA, 2004
- Traffic Collision - Vehicle Dynamics (Speed from Crush), 40 hrs, Contra Costa S.O., CA, 2003
- CA2RS Conference - Cars versus Bikes, 20 hrs, Anaheim, CA, 2003
- Vericom – Acceleration and Familiarization Course, 13 hrs, Sacramento, CA, 2003
- Forensic Mapping Training with MapScenes Pro, 40 hrs, Vallejo PD, CA, 2003
- Traffic Accident Reconstruction, 80 hrs, Contra Costa S.O., CA, 2003
- Advanced Accident Investigation, 80 hrs, Contra Costa S.O., CA, 2003
- CA2RS - Tire Forensics - Mechanics and Inspection, 8 hrs, Thomas Giapponi, Concord, CA, 2003
- CA2RS Conference - Heavy Vehicle Reconstruction, 24 hrs, Anaheim, CA, 2002
- Police Pursuit Liability Update, 8 hrs, CPOA, 2000
- Driver Training / PIT Training, 8 hrs, Napa College, 2000
- EVOC Update, Alameda S.O., 8 hrs, Pleasanton, CA, 1998
- Dual Purpose Motorcycle Training, 80 hrs, Oakland PD, CA, 1996
- Police Pursuit Liability Update, 8 hrs, CPOA, San Francisco, CA, 1994
- Drug Influence / 11550 H&S, 32 hrs, California DOJ, Sacramento, CA, 1994
- Driver Awareness / EVOC, 8 hrs, Vallejo PD, CA, 1993
- Driver Training Instructor, 40 hrs, Contra Costa Training Center, CA, 1992
- Radar Operator Update, 8 hrs, Vallejo PD, CA, 1991
- Driver Awareness Instructor, 24 hrs, Contra Costa Training Center, CA, 1990
- Traffic Accident Reconstruction, 80 hrs, Sacramento Regional Training Center, CA, 1990
- Radar Operator Training, 32 hrs, Sacramento Regional Training Center, CA, 1990
- Motorcycle Training, 80 hrs, San Mateo PD, CA, 1989
- Drug & Alcohol Recognition Update, 24 hrs, Sacramento Regional Training Center, CA, 1989
- Speed from Skid Marks, 40 hrs, CHP Academy, 1987
- Advanced Accident Investigation, 80 hrs, CHP Academy, 1987
- Drug Recognition Expert (DRE), 44 hrs, CHP Academy, 1985
- California Highway Patrol Academy, Bryte, CA, 1984

### EXPERT WITNESS TESTIMONY

Qualified as a Motorcycle Expert in Alameda County, Oakland, California.

Qualified as a Motorcycle Expert and Forensic Mapping Expert in San Joaquin County, Stockton, California.

Qualified as an expert in Traffic Accident Investigation and Speed from Skid Marks in Alameda County Superior Court and in Contra Costa County Superior Court.

Qualified as an expert in Traffic Accident Investigation, Speed from Skid Marks, Traffic Accident Reconstruction, and Forensic Mapping in Solano County Superior Court.

Deposed as an expert in Traffic Accident Reconstruction and Speed Surveys.

## **PUBLICATIONS**

Laser Scanning for Crash Reconstruction, Collision Magazine, Spring 2013  
Case Solved – Laser Scanning for Forensics, Point of Beginning Magazine, March 2012  
Fundamentals of Forensic Mapping, Kinetic Energy Press, ISBN 978-0-9716631-0-4, 2010

## **PROFESSIONAL AFFILIATIONS**

Accreditation Commission for Traffic Accident Reconstruction (ACTAR)  
California Association of Accident Reconstruction Specialists (CA2RS) – Member  
International Association of Forensic & Security Metrology (IAFSM) – Honorary Member  
National Society of Professional Accident Reconstruction Specialists (NAPARS) – Member  
Professional Society of Forensic Mapping (PSFM) – Member – PSFM Approved Instructor  
State of California - Commission on Peace Officer Standards and Training (POST), Officer Involved Traffic Collisions Committee (OITC) - Committee Member

## **RELATED EXPERIENCE**

Law Enforcement - Four years as a Traffic Officer with the California Highway Patrol where primary duties were traffic enforcement and accident investigation. Twenty-four years with the Vallejo Police Department. Retired as a Police Lieutenant in 2012.

Over 40 years of experience investigating and reconstructing traffic collisions. Investigated or assisted in the investigation of over 1000 traffic collisions. Primary accident reconstructionist for the Vallejo Police Department serving as the lead investigator and/or providing assistance and direction to officers in the investigation of fatal and major injury collisions.

Over 1000 hours of training specific to accident investigation and reconstruction. Managed the driver training program for the Vallejo Police Department. Reviewed officer involved collisions and made training recommendations.

44 years of motorcycle riding experience with 21 years of law enforcement motorcycle riding experience.

Private Accident Reconstruction - Joel Salinas and Associates, providing Forensic Mapping, 3D Laser Scanning, UAS (Drone) Mapping, Collision Reconstruction services, Computer Animations, training and consulting.