

SKE Forensic Consultants, LLC



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MICHAEL A. DICICCO

CURRICULUM VITAE

CURRENT POSITION:

Senior Associate of SKE Forensic Consultants, LLC, a private consulting firm specializing in the analysis and reconstruction of vehicle collisions and defects.

- Crash Reconstruction: Inspection of vehicles and crash sites. Review of police reports, witness testimony, medical records, scene photos, weather records, repair bills, black box crash data, and other documents. Computational recreation of the crash using facts and scientifically accepted methodology to determine how the crash occurred. Determine the causes(s) of the crash, which may typically include driver actions, roadway issues, weather conditions, and vehicle defects.
- Motor Vehicle System Failure Analysis: Conventional and anti-lock braking, restraints, power-train, throttle-by-wire (drive-by-wire), seat, suspension, steering, wheels and tires, fuel delivery, emission controls, electrical, climate control, cooling, frame and unibody.
- Motor Vehicle Failures: Airbag, seat belt, seat performance, structural, suspension, axle, spindle failure and separation, wheel bearing failure, transmission failure, sudden acceleration, cruise control, steering, wheel separation, brakes, fuel injection, fuel delivery, electronic engine controls, electronic throttle control.
- Motor Vehicle Repair: Diagnosis and repair of engine, transmission, transfer case, differential and final drive, suspension and steering systems, conventional and anti-lock brake systems, stability/traction control, fuel system, emission systems, climate control, entertainment, restraint systems, lighting/electrical, interior/exterior components and systems, and Safety Recall repairs. Proper repair procedures and shop practices including proper use of tools and equipment.
- Manufacturing Processes: Experienced in metal fabrication, machining, welding, die-casting, injection molding, stampings, painting and coatings. Common issues and failure modes for these include premature corrosion, porosity, excessive burrs and flash, which lead to fires, injuries, and reduced crash performance.

PROFESSIONAL EXPERIENCE:

Robson Forensic (2008-2016)

Vehicle and Crash Reconstruction Expert

- Provide technical investigations, crash reconstruction, testing, analysis, reports, and testimony toward the resolution of litigation arising from motor vehicle collisions, vehicle design/manufacturing defects, improper repairs, and vehicle fires.
- Over 400 investigations of real-world collisions: vehicle-to-vehicle, single-vehicle, hit pedestrian.

Ford Motor Company (2007-2008)

Product Engineer - Restraints

- Developed and released design changes for the Ford Escape, Edge, and F-150 curtain and side airbag programs. This process included feasibility analysis and meeting federal crash standards for sled, barrier, and rollover testing.
- Launched several design changes for the MY09 Ford Escape Curtain Airbag. Developed and approved Ford's first non-sealed side airbag connectors.

Takata – Automotive Inflation Systems (2006-2007)

Sr. Product Engineer - Inflators

- Developed and qualified new airbag inflator designs. Tuned inflators for OEM airbag module testing, coordinated USCAR DV/PV testing, completed FMEA studies, conducted design reviews, released drawings and BOMs, provided mass flow data for system-level testing (Madymo), and evaluated design changes (margin testing, tolerance stack-ups, feasibility/cost analysis).

Autoliv – Automotive Safety Products (2003-2006)

Project Engineer – Ford Business Unit

- Coordinated design changes for Ford airbags, seat belts and steering wheels. Conducted design change workshops and benchmarked restraint systems manufactured by Takata, TRW, Delphi, and Key Safety.

Autoliv – Automotive Inflators (2000-2003)

Mechanical Design Engineer

- Completed design/product validation testing and provided engineering for automotive airbag inflators. Designed test fixtures, evaluated design changes, completed failure mode analysis, control plans, investigated lot testing anomalies, reviewed customer complaints, implemented permanent corrective actions, and created/edited drawings and test procedures. Utilized the Ford 8D process to address customer/internal corrective action issues, created statistical control charts, and performed Gage R/R's on critical processes.

IMI Norgren, Inc. (1998-2000)

Mechanical Engineer, RMA Supervisor

- Supervised the Returned Merchandise Department and provided general manufacturing support for pneumatic airline products. Maintained customer complaint and supplier confidence-level reports for Executive review. Conducted laboratory product testing, performed customer product evaluations, maintained ISO 9001 procedures, and improved products/processes on a Value Analysis Team.

Jetstream Systems, Inc. (1997-1998)

Mechanical Design Engineer

- Designed air conveying systems for the aluminum can industry. Rigorous AutoCAD design/detail experience.

EDUCATION/TRAINING:

Fully Accredited Traffic Accident Reconstructionist from the Accreditation Commission for Traffic Accident Reconstructionists – ACTAR #3201 (2016)

California Polytechnic State University, San Luis Obispo, CA

- Bachelor of Science, Mechanical Engineering, 1997

Northwestern University, Traffic Institute, Evanston, IL

- Traffic Crash Reconstruction I, 2008
- Traffic Crash Reconstruction II, 2015
- Traffic Crash Reconstruction III, 2016

Court-qualified as a Crash Reconstruction Expert Witness

Investigating Motor Vehicle Fires, 2012

Fundamentals of Motor Vehicle Fire Investigation, SAE, 2013

Certified Motor Vehicle Air Conditioning Technician, 2007

NAPARS – NATARI – MATAI – NJAAR – NYSTARS – MATAI Conference, 2018

- Investigating Pedestrian Collisions, History of Pedestrian Crash Testing and Reconstruction, Pedestrian Crash Testing, Medical Perspective/Pedestrian Injury Patterns, Perception Response Times, Nighttime Perception, Pedestrian Distraction, Pedestrian Formulas Preferred and Problematic, Eye Tracking Testing Review, Crash Testing Results Review.
Lake George, New York – October 17-19, 2018

PROFESSIONAL AFFILIATIONS:

PI Tau Sigma Engineering Honor Society, 1995

SAE Society of Automotive Engineers, 2003

NJAAR New Jersey Association of Accident Reconstructionists

NATARI National Association of Traffic Accident Reconstruction

GUEST SPEAKER

OACTA Personal Injury Defense Seminar, Columbus, Ohio, 2014
Topic – Event Data Recorders.