



**COLLISION
AND INJURY
DYNAMICS**

2275 W. 190th Street, Torrance, CA 90504 • 310.414.0449 • www.ci-dynamics.com

HARM JANSEN, MSc

Senior Consultant

hjansen@ci-dynamics.com

Professional Competence

Vehicular collision analysis and accident reconstruction, specializing in mechanics and dynamics of bicycle and motorcycle collisions with sub-specialties in human factors of bicycle and motorcycle riding and use.

Education and Certification

- Propedeuse in Mechanical Engineering
- Delft University of Technology; 1988
- Master of Science in Civil Engineering
- Delft University of Technology; 2005

Training

I.DRR Human Factors in Traffic Crashes, Analysis of Drivers' Responses; 2021

NICA Level 1 Certified Licensed Cycling Coach, 2019

CMSP Motorcyclist Training Course, Motorcycle Riding Education Corp; 2018

Total Control Advanced Riding Clinic Level 1, SoCal Motorcycle Training; 2018

CAARS Motorcycle Crash Testing; 2017

Society of Automotive Engineers

- Motorcycle Accident Reconstruction; 2018
- World Congress; 2009, 2010, 2014
- Driver Distraction Seminar; 2012

Interbike International Tradeshow and ASTM meetings; 2008 – 2014

California Superbike School – Level 1 and 2; 2012

HVE-3D Advanced Accident Reconstruction; 2011

Motorcycle Safety Foundation – Advanced Rider Course; 2011

Leica Geosystems: High Definition Laser Scanning & Modeling Course; 2010



- Institute of Police Technology and Management
- Traffic Crash Reconstruction; 2010
 - Advanced Traffic Crash Investigation; 2008

HVE Forum: Compatible Models; 2009

AutoCAD: Fundamental and Advanced Level; 2008

Visual Statement: Advanced Diagramming and Animation; 2008

MEA Forensic Engineers & Scientists: PC-Crash Training Workshop; 2008

Professional Experience

- 2007 – Present Collision and Injury Dynamics, Inc.
Analysis, reconstruction, inspection, and presentation performed on collisions involving vehicles, and pedestrian/bicycles. Conventional reconstruction methods are supplemented with data extraction from engine/airbag control modules, vehicle dynamics simulations, 3D models of terrain/vehicles for visibility studies, and photorealistic renderings of the final reconstruction. Other duties include High-Definition Laser Scanning and 3D modeling and forensic testing design/assembly.
- 2005 – 2007 United Pro Cycling Team
Hired, managed and directed staff personnel and athletes, executed logistics, recruited sponsorships, implemented and enforced policies and procedures.
- 1997 – 2005 BiciSports
Personal trainer. Specialized in bicycle mechanics and performance.
- 2003 – 2005 RPM
Part-time professional cyclist.
- 1996 – 2003 Wolfe Products Company
Professional cyclist.
- 1989 – 1999 Dutch Olympic Committee
Professional cyclist.

Teaching Experience

Southwestern Association of Technical Accident Investigators, Inc. (SATAI): Two Wheel Stability, Bicycle and Motorcycle Accident Reconstruction; 2016

Organizations

American Motorcyclist Association
American Society of Testing and Materials
Society for Automotive Engineers
Southwestern Association of Technical Accident Investigators



Forensic Qualifications

Testimony in Superior Court in California
Testimony in Arizona Superior Court

Two-Wheel Vehicle Specialty

Mr. Jansen is a vehicular collision analysis and accident reconstruction expert. He has extensive experience in the fields of bicycle and motorcycle riding, and bicycle products. This experience combined with his education enables Jansen to provide expert testimony in all aspects of vehicular and two-wheel vehicle accident reconstruction. This includes matters dealing with bicycle products, riding techniques and human factors of interaction between the rider and vehicle, as well as the surrounding environment.

Awards and Honors

Toyota United Cycling Team, Ranked No. 1 in the United States; 2006 – 2007
California State Champion, Cycling; 2004
U.S. Open Professional Champion, Cycling; 2001
Dutch Olympic Cycling Team: A-status; 1996 – 1999
Dutch National Champion, Cycling; 1993
Collegiate World Champion, Cycling; 1990

Biographical Sketch

Mr. Jansen was born in Delft, The Netherlands in 1967 and has a Master of Science in Engineering. He has been a professional cyclist for 14 years, residing and competing in the United States since 1995. Between 1989 and 2005, Mr. Jansen participated in five world championships and won 34 international events. He retired from full-time cycling in 2003. Between 1996 and 2005, Mr. Jansen coached all level cyclists, including Olympians. He specialized in the mechanical and physiological aspects of bicycle fitting and performance. In 2004, Mr. Jansen completed his thesis, sponsored by the University of California, Los Angeles and received a Master of Science, graduating Cum Laude from the Delft University of Technology in The Netherlands, in 2005. From 2005 to 2007, Mr. Jansen managed, directed, coached and assisted in founding a domestic professional cycling team, which went on to rank 1st in the nation in 2007. Since 2016, Mr. Jansen races motorcycles in the Supersport class and participates in both expert and professional road racing events. Since 2007, Mr. Jansen has been retained as a consultant, and has been assisting consultants on litigation matters while being employed by Collision and Injury Dynamics.

Reports and Publications

Jansen, H., LeBlanc, B., Wilhelm, C., Shaw, T. et al., "Quantifying Engine Braking for Various Common Street Motorcycles," SAE Technical Paper 2020-01-0880 (2020): *SAE World Congress Experience*.

Bretting, Gerald P., Henricus P. Jansen, Michael Callahan, John Bogler, and John Prunckle. "Analysis of Bicycle Pitch-Over in a Controlled Environment." *SAE International Journal of Passenger Cars - Mechanical Systems* 3.1 (2010): 57-71.

Jansen, H.P., M.P. Stenstrom, and J. De Koning. "Development of indirect potable reuse in impacted areas of the United States." *Water Science & Technology* 55.1-2 (2007): 357.

Thesis presentation: "Indirect Potable Reuse in Impacted Areas of the United States," (2005) *International Water Management Conference, Jeju, Korea*.

