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## Harm Jansen, MSc

### **Collision Reconstruction and Two-Wheel Safety Expert**

Harm Jansen's work integrates engineering analysis with applied experience in two-wheel vehicle operation. He holds a master's degree from the Delft University of Technology and has extensive practical experience in two-wheel athletics, including professional-level cycling and motorcycle racing.

He is the founder of Full Cycle Recon, an engineering consultancy providing expert analysis and testimony in vehicular collision litigation. His work supports attorneys and courts through objective reconstruction, technical evaluation, and clear communication of complex findings.

### **Professional Experience**

- Full Cycle Recon (2024 – Present)
  - Founder and principal consultant, providing expert consulting for vehicular collision and two-wheel safety cases.
- Collision and Injury Dynamics, Inc. (2007 – 2024)
  - Conducting analysis, reconstruction, inspection, and presentation of collisions involving trucks, vehicles, motorcycles, bicyclists and pedestrians.
  - Utilizing advanced techniques such as "black box" data extraction, vehicle dynamics simulations, 3D terrain/vehicle models for visibility studies, and photorealistic renderings.
  - Designing and implementing forensic testing procedures.

### **Education**

- Masters in Civil Engineering (Cum Laude), Delft University of Technology, The Netherlands, 2005
- Undergraduate in Mechanical Engineering, Delft University of Technology, The Netherlands, 1986

### **Athletic Career**

Professional cyclist for 14 years [6-year member of Dutch Olympic team] participated in world championships for road, track and mountain biking. Coached and managed professional bicyclists. Since 2016, racing motorcycles in the SuperSport class [expert and professional], and coaching expert motorcycle racers.

## Training

- NAPARS and CA2RS EDR research and training symposium, 2025
- Recon-3D v2.0 Certificate Course, 2025
- I.DRR Human Factors in Traffic Crashes, Analysis of Drivers' Responses; 2021
- NICA Level 1 Certified Licensed Cycling Coach, 2019-2020
- 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

## Research and Presentations

Peck, L., Jansen, H. – Northwestern University - January 2025 – Pasadena, CA – Course Lecture "Motorcycle Collision Reconstruction"

Sweet, D., Bretting, G., and Wilhelm, C., "Testing and Analysis of Riding a Road Bicycle over an Artificial Pothole," SAE Technical Paper 2024-01-2755, 2024. [assisted]

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

Jansen, H. SATAI Summer 2016 Training Conference, July 27-28, 2018, Henderson, Nevada. Presentation: Two Wheel Vehicle Stability and Accident Reconstruction.

Bretting, Gerald P., Henricus P. Jansen, Michael Callahan, John Bogler, and John Prunkle. "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," Jeju, Korea, 2005.

### **Organizations**

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

