

## Harm Jansen, MSc

### Accident Reconstruction Expert

In the complex realm where engineering precision meets the dynamics of human actions, Harm Jansen's journey as an Accident Reconstruction Expert has been defined by a profound intersection of technical expertise and practical experience. With a foundation rooted in a master's degree from world-renowned Delft University of Technology, his career path has seamlessly integrated a passion for athletics—spanning from professional cycling to motorcycle racing—with an unwavering commitment to forensic analysis and reconstruction.

As the founder of Full Cycle Recon, his consultancy focuses on providing expert litigation support in vehicular collision cases, a role that underscores his commitment to meticulous analysis and precise reconstruction. Additionally, his current tenure at Northwestern University involves teaching motorcycle accident reconstruction nationwide, bridging academic rigor with real-world application.

Harm's background marries technical acumen with firsthand experience, offering a distinctive perspective that informs every facet of collision analysis and reconstruction. He is driven by accuracy and clarity in unraveling the complexities of vehicular incidents, ensuring that his contributions stand as pillars of integrity and expertise in the field.

**Key Highlight:** Combines a master's degree in engineering, an extensive athletic background, and technical expertise to offer a unique perspective on collision analysis and reconstruction.

### Professional Experience:

- **Full Cycle Recon (2024 – Present)**
  - Founder and principal consultant, providing expert consulting and litigation support for vehicular collision cases.
- **Northwestern University (2024 – Present)**
  - Teaching motorcycle accident reconstruction across the United States.
- **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:

- **Master's 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 and track cycling as well as mountain biking. Coached and managed professional bicyclists. Since 2016, racing motorcycles in the SuperSport class [expert and professional], and coaching motorcycle racers.

### Training:

- 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 Education:

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.

Peck, L., Manning, J., Bartlett, W., Dickerson, C. et al., "Eleven Instrumented Motorcycle Crash Tests and Development of Updated Motorcycle Impact-Speed Equations," SAE Technical Paper 2018-01-0517, 2018, doi:10.4271/2018-01-0517. [assisted]

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," Jeju, Korea, 2005.

#### Organizations

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

