

Curtis Beloy PE

PRINCIPAL MECHANICAL ENGINEER



Forensic Vehicle Engineers

FORENSIC ENGINEERING EXPERIENCE

4Moto Engineers LLC Madison, WI
Principal Mechanical Engineer 2018-present

Safety Engineering Associates Madison, WI
Mechanical Engineer 2015-2018

DJS Associates, Inc. Abington, PA
Collision Reconstruction Engineer 2008-2015

- Reconstruction and analysis of incidents involving all types of on-highway and off-highway vehicles
- Product defect analysis and design evaluations of motorcycles, ATVs, and other vehicles.
- Production of written reports, engineering animations, and expert testimony
- Research and testing

VEHICLE ENGINEERING EXPERIENCE

Donaldson Company, Inc. Bloomington, MN
Lead Applications Engineer 2007

- Design and development of engine fluid filtration products for cars, trucks, and motorcycles

Bel-Ray Company, Inc. Farmingdale, NJ
Product Engineer 2004-2006

- R&D testing of products for motorcycles and ATVs
- Investigation of product defect claims

INSTRUCTIONAL EXPERIENCE

Blackhawk Technical College Janesville, WI
Adjunct Physics Instructor, Spring Semester 2019

University of Wisconsin Children's Hospital Madison, WI
AP STEM instructor 2017-2020

Minnesota State University Mankato, MN
Teaching Assistant, Mechanical Engineering 2003-2004

EDUCATION

Master of Science, Mechanical Engineering
Minnesota State University, 2004

Bachelor of Science, Mechanical Engineering
Magna Cum Laude
Minnesota State University, 2003

LICENSURE AND CERTIFICATIONS

Licensed Professional Engineer
Wisconsin, #44326-6
Minnesota, #57019

Technician and Analyst Certifications,
Crash Data Retrieval (CDR)

FAA Certified UAS Remote Pilot

PROFESSIONAL AFFILIATIONS

Society of Automotive Engineers (SAE)

National Society of Professional Engineers (NSPE)

American Society of Mechanical Engineers (ASME)

National Association of Professional Accident
Reconstruction Specialists (NAPARS)

American Motorcyclist Association (AMA)

VEHICLE HISTORY

Automotive mechanic

Racing and performance driving experience

Motorcycle, ATV, snowmobile, and personal watercraft
(PWC) operation

PUBLICATION

Webb, Beloy, Lubricant Base Oil Effects on Motorcycle
Engine Power, SAE Technical Paper 2008-32-0002



Forensic Vehicle Engineers

CONTINUING EDUCATION

International Forensic Photography Symposium, Ai2-3D, Toronto, Ontario, Canada

Nighttime Crash Scene Investigation, National Association of Professional Accident Reconstruction Specialists

Applying Human Factors Research- Insitute of Traffic Accident Investigators (ITAI)

Heavy Vehicle Event Data Recorders (HVEDR)- Update, National Association of Professional Accident Reconstruction Specialists

Event Data Recorders (EDR) in Traffic Crash Reconstruction- Update, National Association of Professional Accident Reconstruction Specialists

Accident Reconstruction Digital Summits, Society of Automotive Engineers

Monte Carlo Analysis in Accident Reconstruction, National Association of Professional Accident Reconstruction Specialists

Photogrammetry and Analysis of Digital Media, Society of Automotive Engineers, Troy, MI

Video Evidence Analysis Symposium, Input-ACE, Spokane, WA

Scientific Methods for Determining Driver's Perception and Response, National Association of Professional Accident Reconstruction Specialists

World Conference and Crash Reconstruction Technical Sessions, Society of Automotive Engineers

Event Data Recorder Update Course, Rick Ruth, PE, Society of Automotive Engineers

Applied Vehicle Dynamics, James Walker, PE, Society of Automotive Engineers, Greer, SC

Engineering Ethics (multiple), NSPE

Off-Road Vehicle Dynamics, Safety Engineering Associates, Kris Kubly, PE, Madison, WI

ATV RiderCourse, ATV Safety Institute, DeForest, WI

Event Data Recorder use in Traffic Crash Reconstruction, Ruth Consulting, Abington, PA

Motorcycle Technical Steering Committee Meetings, Society of Automotive Engineers

Accident Reconstruction and Advanced Driver Assistance Systems (ADAS), Society of Automotive Engineers

Video Analysis, Photogrammetry, and sUAS, Society of Automotive Engineers

Finite Element Analysis and Topological Optimization, Society of Automotive Engineers

Camera tracking foundation Course, PF-Track

GPS Technology in Accident Reconstruction, National Association of Subrogation Professionals presentation, Abington, PA

Drone Surveying and Aquiring Assets using ReCap and 3DS Max, Autodesk University

Vehicle Dynamics, National Association of Professional Accident Reconstruction Specialists

Products Liability Conference, University of Wisconsin Madison, WI

California Superbike School, Virginia International Raceway (VIR), Alton, VA

Motor Vehicle and Motorcycle Safety Inspection Training, Pennsylvania Department of Transportation, Ambler, PA

Motorcycle Safety Foundation (MSF) RiderCourses, Basic and Advanced Courses

3D Laser Scanning and Crash Reconstruction, National Academy of Forensic Engineers (NAFE)

National Crash Analysis Conference, National Crash Analysis Center, George Washington University Washington, DC

PC-Crash Simulation Software Training Workshop, MEA Forensics, Las Vegas, NV

Bosch CDR Technician and Data Analyst Certification Training, Egg Harbor, NJ

World Congress and Technical Sessions, Society of Automotive Engineers, Detroit, MI

Small Engine Technology Conference, Society of Automotive Engineers, Milwaukee, WI

National Academy of Forensic Engineers (NAFE) Conference, Las Vegas, NV