

Curriculum Vitae

Sean P. Vozza, BSME

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BACKGROUND

Mr. Vozza is a Mechanical Engineer who investigates cases involving a variety of forensic engineering issues. He has worked on over 500 accident reconstruction cases in the past seven years, providing analysis on topics such as roadside safety, maintenance of traffic, commercial vehicle accidents, and the analysis of mechanical systems and product failures. His accident reconstruction cases have included automobiles, trucks, tractor-trailers, motorcycles, pedestrians, watercrafts and various machinery and products. He also works with ANSI and ASTM standards, powered mobility devices, digital/graphic accident reconstruction, 3D laser scans, and unmanned aerial vehicle systems.

AREAS OF EXPERTISE

- Automobile Collisions
- Tractor-Trailer Collisions
- Bicycle Accidents
- Motorcycle Accidents
- Pedestrian Accidents
- Roadside Safety
- Construction Zones
- Black Box Analysis
- Tractor Trailer Electronic Control Modules (ECM)
- Product Failure Analysis
- Maintenance of Traffic (MOT) Evaluation
- Restraint System Analysis
- Watercraft Accidents

PROFESSIONAL LICENSES & CERTIFICATIONS

- State of Florida, E.I. #1100025130
- Certified Counter Balanced Forklift Operator
- FAA Remote Pilot Certification, #4412891

EDUCATION

- B.S., Mechanical Engineering, University of Florida, Gainesville, FL, 2016

PROFESSIONAL EXPERIENCE

2019 – Present | Quality Forensic Engineering, LLC | Mechanical Engineer, Tallahassee, FL

2016 – 2019 | BEC Consulting, LLC | Mechanical Engineer, Tallahassee, FL

2014 | Sun Hydraulics | Cartridge Engineering Intern, Sarasota, FL

NOTABLE PROJECTS

Forensic Engineering – Mr. Vozza has managed a large number of forensic engineering projects, including the following specific subjects and issues:

- Vehicular accident reconstruction
- Tractor-trailer accident reconstruction
- Bicycle accident reconstruction
- Motorcycle accident reconstruction
- Pedestrian accident reconstruction
- Roadside safety device application and evaluation
- Construction zone accidents
- Vehicle electronic data acquisition and analysis
- Accident Video Analysis
- Product design and product failure analysis and testing
- Maintenance of traffic (MOT) related accidents
- Restraint system and evidence analysis
- Vehicle dynamics
- Mechanical design and failure evaluation
- Traffic signal sequence evaluation
- Unmanned aerial vehicle imaging and analysis
- 3D scan data collection and analysis
- Mechanical lift failure and design analysis
- Watercraft accident reconstruction
- Powered mobility device incident analysis

PROFESSIONAL ASSOCIATIONS

- American Society of Mechanical Engineers (ASME)
- National Association of Professional Accident Reconstruction Specialists (NAPARS)

HONORS AND AWARDS

- Bachelor of Science in Mechanical Engineering Cum Laude Honors

COURSEWORK/CONTINUING EDUCATION

May 2023 | “Heavy Vehicle Forensic Mechanical Inspection”, Northwestern University Center for Public Safety, Rockford, IL

April 2023 | “Bicycle and Electric Bicycle Performance” by Roman Beck, World Reconstruction Exposition, Orlando, FL

April 2023 | “Methods for Establishing Motorcycle Impact Speed” by Louis Peck, World Reconstruction Exposition, Orlando, FL

April 2023 | “Heavy Vehicle Side and Rear Underride Speed Analysis” by Scott Skinner, World Reconstruction Exposition, Orlando, FL

April 2023 | "Video Analysis in Collision Reconstruction" by Ben Molnar, World Reconstruction Exposition, Orlando, FL

April 2023 | "GPS Data: Sources, Analysis, and Presentation" by Gary Johnson, World Reconstruction Exposition, Orlando, FL

April 2023 | "Underride Reconstruction, Reporting, & Regulations" by Aaron Kiefer, World Reconstruction Exposition, Orlando, FL

April 2023 | "Next Generation GM ACM EDRs / ASCMs / Front Camera Module EDRs" by Don Floyd, World Reconstruction Exposition, Orlando, FL

April 2023 | "Guardrail End Terminal Crash Reconstruction" by Lawrence Wilson, World Reconstruction Exposition, Orlando, FL

April 2023 | "Accurate Measurements by Combining Images or Video with Laser Scans" by Dan Mills, World Reconstruction Exposition, Orlando, FL

April 2023 | Crash Testing, World Reconstruction Exposition, Orlando, FL

July 2022 | Recertification Training and Testing for FAA Part 107 Remote Aircraft Pilot Licensing

June 2022 | "Mock Trial" by Dr. Brian G. Pfeifer, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | "Technology & Accident Reconstruction" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | "Tractor-Trailer Collision Reconstruction" by Dr. Brian G. Pfeifer, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | "Pedestrian & Bicycle Accident Reconstruction" by Dr. Brian G. Pfeifer, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | "Accident Reconstruction 101" by Dr. Brian G. Pfeifer, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | "Slips, Trips & Falls: Awareness and Avoidance" by Traci K. Campbell, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | "Fieldwork Safety Procedures" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | "Cyber Security Training" by Brian Rode, Premiere Computer Solutions, Tallahassee, FL

December 2021 | "Download and Analysis Techniques for Hyundai and Kia Vehicles" and "Engine Control Modules" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

July & October 2021 | "Photogrammetry Techniques and Procedures" by Patrick D. Weber, Quality Forensic Engineering, LLC, Tallahassee, FL

July 2021 | "Fieldwork Safety Procedures" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

June 2021 | "Cyber Security Training" by Brian Rode, Premiere Computer Solutions, Tallahassee, FL

April 2021 | "Operator Safety Training - Sit-down Counter Balance Forklifts", Ring Power Lift Trucks, Jacksonville, FL

July 2020 | Training Course for preparation for the FAA Part 107 Exam for Certification as a Remote Aircraft Pilot

July 2020 | "Tractor-Trailer Inspection 101" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

July 2020 | "Berla iVe Overview" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

February 2020 | "Fundamentals of CDR Downloads" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

February 2020 | "ACM Repowering Rig and the CDR900" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

February 2020 | "Fieldwork Safety Procedures" by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

November 2018 | "Traffic Crash Reconstruction II", Northwestern University Center for Public Safety, Evanston, IL

April 2018 | "Operator Safety Training - Sit-down Counter Balance Forklifts", Ring Power Lift Trucks, Jacksonville, FL

May 2017 | "Traffic Crash Reconstruction I", Northwestern University Center for Public Safety, Evanston, IL

April 2016 | "Mechanical Engineering Design 1 & 2", University of Florida, Gainesville, FL

December 2014 | "Engineering Mechanics: Dynamics", University of Florida, Gainesville, FL

April 2014 | "Mechanics of Materials", University of Florida, Gainesville, FL

December 2013 | "Physics with Calculus 2", University of Florida, Gainesville, FL

May 22, 2023