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NICHOLAS E. CIVITANOVA **STAFF CONSULTANT**

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Mr. Nicholas Civitanova is a Mechanical Engineer and a Staff Consultant for Engineering Systems Inc (ESi) in the Aurora, Illinois office. He has a Bachelor of Science in Mechanical Engineering from Purdue University in West Lafayette, Indiana. Mr. Civitanova specializes in accident investigation and reconstruction of recreational, passenger, and commercial vehicles with expertise in impact analysis, vehicle dynamics instrumentation, data acquisition and analysis, and three-dimensional laser scanning. Mr. Civitanova has experience with biomechanical instrumentation, incorporating the use of motion capture technologies to measure and visualize biological motion.

Areas of Specialization

Accident Investigation and Reconstruction
Vehicle Dynamics Analysis and Simulation
Data Collection
Vehicle Systems Analysis

Education

B.S., Mechanical Engineering, Purdue University, West Lafayette, IN, 2022

Professional Affiliations/Honors

Society of Automotive Engineers (SAE)

Member

American Society of Mechanical Engineers (ASME)

Member

Positions Held

Engineering Systems Inc., Aurora, IL

Staff Consultant, 2023-present

Engineering Systems Inc., Ann Arbor, MI

Engineering Intern, 2021 - 2022

Continuing Education

Traffic Crash Reconstruction for Engineers

Northwestern University Center for Public Safety, Aurora, IL, January 2024

Recon – 3D Training Course

Certificate of Completion, December 2023

Virtual Crash Simulation Basics Training

Certificate of Training, November 2023

Virtual Crash Interface Training

Certificate of Training, November 2023

Event Data Recorder Update and Analysis

Ruth Consulting, September 2023

Bosch CDR Tool Technician Training

Certificate of Training, April 2023

FARO Focus 3D Operator

Certificate of Training, Aurora, IL, February 2023

Publications/Presentations

“Addition of Tire Forces into Low-Speed Bumper-to-Bumper Crash Reconstruction Simulation Models”,

R. Matthew Brach, Jacob Stegemann, Emmanuel Jay Manuel, and Nicholas Civitanova,
SAE Technical Paper 2024-01-2479, SAE International, Warrendale, PA, 2024.