

David A. Buzdygon

PE

Senior Consultant



Mr. David Buzdygon is an experienced engineer and licensed professional engineer with a demonstrated history of working on a diverse range of projects. He is well-versed in technical presentations and explaining complex ideas to those unfamiliar with the technical concepts involved. Mr. Buzdygon has a versatile skillset based in Mechanical Engineering.

Mr. Buzdygon specializes in automotive accident investigation and reconstruction, including commercial vehicles, passenger cars, bicycles, pedestrians, and recreational vehicles. He has experience analyzing commercial truck and trailer air brake systems to determine adherence to industry standards and of out-of-service criteria, as well as passenger vehicle data imaging and analysis.

Mr. Buzdygon has specific experience in mechanical design of marine electronics, and formal education in machine design. He can analyze complex mechanical assemblies to determine design flaws, maintenance issues, component failures, and offer general mechanical design consulting. Mr. Buzdygon further uses his mechanical background to determine root causes of failure in machinery-related accidents.

Mr. Buzdygon is highly skilled at preserving meaningful evidence and collecting relevant data that is applied towards an accident reconstruction analysis. He is proficient in generating and presenting reconstruction analyses into accurate and factual demonstratives using 2D and 3D CAD software. His demonstratives make it easy for any party involved in a case to understand what happened and why.

Education

B.S., Mechanical Engineering, Georgia Institute of Technology, 2019

Licenses & Certifications

- State of Georgia P.E. License PE053114
- Bosch CDR (Crash Data Retrieval) Tool Technician

Contact Information

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ESi Atlanta

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Areas of Specialization

- Motor Vehicle Accident Reconstruction
- Recorded Data Recovery
- Commercial Vehicles
- Design Analysis

- FAA (Federal Aviation Administration) Small Unmanned Aircraft System Pilot, Certification No. 4291586
 - FARO Focus 3D Scanner Operator
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Positions Held

Engineering Systems Inc., Norcross, Georgia

- Senior Consultant, 2025 - present
- Senior Staff Consultant, 2023 - 2024
- Staff Consultant, 2021 – 2022

Kinetic Engineering and Accident Reconstruction Services

- Forensic Engineer, 2019 – 2021

Playout LLC

- Design Engineer/Project Manager, 2017 – 2019

Johnson Outdoors Marine Electronics

- Mechanical Design Engineer, 2016 – 2017
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Continuing Education

- **Hyundai-Kia & Tesla EDR Tools Technician** - University of North Florida Institute for Police Technology and Management (IPTM), Aurora, IL, 2025
 - **Passenger Restraint Safety Systems** - University of North Florida Institute for Police Technology and Management (IPTM), Aurora, IL, 2025
 - **Applied Vehicle Dynamics** - Society of Automotive Engineers, Greer, SC, 2024
 - **Industrial Hydraulics Training** - Wilson Company; Dallas, TX, 2024
 - **Event Data Recorder Update and Analysis** - Ruth Consulting; Atlanta, GA, 2023
 - **Accident Reconstruction Digital Summit** - Society of Automotive Engineers, 2023
 - **Photography for Accident Reconstruction, Product Liability, and Testing** - Society of Automotive Engineers; Oxnard, CA, 2022
 - **Accident Reconstruction Digital Summit** - Society of Automotive Engineers, 2022
 - **Traffic Crash Reconstruction for the Engineer** - Northwestern University, 2022
 - **Applying Automotive EDR Data to Traffic Crash Reconstruction** - Society of Automotive Engineers, 2021
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- **Electronic Data for Investigations: Infotainment and Cell Phones** - DJS Associates; Abington, PA, 2021
- **Bendix Advanced Technologies** - Bendix Commercial Vehicle Systems; Elyria, OH, 2021
- **Motorcycle Crash Investigation** - Institute of Police Technology and Management, FL, 2021
- **Comprehensive Air Brake Training Program** - Bendix Online Brake School, 2021
- **Pedestrian/Bicycle Crash Investigation** - Institute of Police Technology and Management, FL, 2020
- **Advanced Traffic Crash Reconstruction Utilizing Human Factors** - Northwestern University Center for Public Safety, 2020
- **Bosch Crash Data Retrieval Technician Training** - Institute of Police Technology and Management, FL, 2020
- **Accessing and Interpreting Heavy Vehicle Event Data Recorders** - Society of Automotive Engineers, Oxnard, CA, 2019
- **Advanced Applications of Heavy Vehicle EDR Data** - Society of Automotive Engineers, Oxnard, CA, 2019
- **Fundamentals of Vehicle Dynamics** - Society of Automotive Engineers, 2019
- **FARO Zone 3D Training** - FARO, Palm City, FL, 2019

Professional Affiliations/Honors

- **American Society of Mechanical Engineers (ASME)**
- **Society of Automotive Engineers (SAE)**
- **National Association of Professional Accident Reconstruction Specialists (NAPARS)**
- **National Academy of Forensic Engineers (NAFE)**

"Safety Against Burns from Hot Touchable Parts of Electrical Equipment," M.A. Mitolo, and **T.J. Bajzek**, IEEE Transactions on Industry Applications, Vol. 52, No. 5, pp. 3699–3704, September/October 2016.

Publications

Sensitivity Analysis of Virtual Crash Simulation Software Using Design of Experiments (DOE)," J.M. Roberts, N.E. Civitanova, J.A. Stegemann, **D.A. Buzdygon**, and K.R. Thobe. SAE International, SAE Technical Paper, 2025. 2025-01-8693, doi:10.4271/2025-01-8693.