



CURRICULUM VITAE
JOHN P. EDELEN

EDUCATION

2023	MS	COLORADO SCHOOL OF MINES – GOLDEN, COLORADO College of Engineering Engineering – Mechanical Specialty – Thermal Fluid Energy Systems
2022	BS	COLORADO SCHOOL OF MINES – GOLDEN, COLORADO College of Engineering Engineering – Mechanical
2018	AAS	RED ROCKS COMMUNITY COLLEGE – LAKEWOOD, COLORADO Associates of Applied Science Precision Machining

PROFESSIONAL EXPERIENCE

2023 – DATE	VECTOR SCIENTIFIC, INC. <i>Engineer / Research and Testing Accident Reconstruction</i> Motor vehicle accident investigation, analysis, and reconstruction of low-speed and high-speed frontal, rear-end, lateral, sideswipe, and rollover collisions; accident scene and vehicle inspections and evidence documentation including Event Data Recorder (EDR) Crash Data Retrieval (CDR) downloads and 3D laser scanning; engineering analyses and computer simulation of vehicle and collision dynamics.
2023	COLORADO SCHOOL OF MINES <i>Graduate Senior Design Lab TA</i> Organized 120 Tools & Equipment for 62 design teams; maintained & trained students on CNC plasma cutter machine and laser cutter.
2016 – 2023	FOOTHILLS GLASS <i>Glazier</i> Installed glass units and frames into heavy equipment, residential, and commercial buildings.

LICENSES AND CERTIFICATES

- 2024 / Oct Accreditation Commission for Traffic Accident Reconstruction (ACTAR)
Fully Accredited Traffic Accident Reconstructionist #4979
- 2023 / Oct Bosch Crash Data Retrieval (CDR)
CDR Data Analyst and System Operator Certification
- 2023 / Sept Bosch Crash Data Retrieval (CDR)
CDR Technician I & II Certifications

RESEARCH AND TESTING

- 2023 – 2024 VECTOR SCIENTIFIC, INC.
Wheel Separation Vehicle and Occupant Kinematics
- 2023 – 2024 1958 Edsel Citation
Revamp Hydraulic Brake System with Dual Reservoir Vacuum-Powered Unit Utilizing an All-Wheel Disc Brake Design
Developed, fabricated, and tested an all-wheel disc brake design onto the vehicle to add safety redundancy and durability from the original single-reservoir all-drum brake setup.
- 2021 – 2022 Colorado School of Mines
Baja 1000 Trophy Truck Project
Collaborate with Professors and fellow engineering students to build a truck capable of off-road racing at speeds above 100 mph.

CONFERENCES, SEMINARS, AND COURSES

- 2025 / Oct National Association of Professional Accident Reconstructionists (NAPARS)
Non-EDR Data Sources
- 2025 / July National Association of Professional Accident Reconstructionists (NAPARS)
Motorcyclist Airbags: An Alternative EDR Inflating the Survivability Margin of Rider Crashes
- 2025 / Apr National Association of Professional Accident Reconstructionists (NAPARS)
The Successes, Limitations, and Future of Automatic Emergency Braking
- 2025 / Apr Society of Automotive Engineers (SAE)
WCX 2025 – SAE World Congress
- 2025 / Mar National Association of Professional Accident Reconstructionists (NAPARS)
Finding A/B stiffness values from NHTSA data
- 2024 / July National Association of Professional Accident Reconstructionists (NAPARS)
Counterfeit Airbags – Crash Investigation and Reconstruction of Counterfeit Airbags and Non-Genuine Component Parts

- 2024 / Mar Northwestern University Center for Public Safety
Traffic Crash Reconstruction I
- 2023 / Dec Institute of Police Technology and Management
Advanced Traffic Crash Investigation
- 2023 / Nov Photomodeler Technologies
PhotoModeler for Collision Investigations
- 2023 / Oct Northwestern University Center for Public Safety
Traffic Crash Investigation I
- 2023 / Oct Bosch Crash Data Retrieval
CDR System Analyst Course
- 2023 / Sept Virtual Crash Live Classroom Training Workshop
Virtual Crash 5 Accident Reconstruction Software
- 2023 / Sept Bosch Crash Data Retrieval
CDR Technician Course

PROFESSIONAL MEMBERSHIPS

American Society of Mechanical Engineers (ASME)
Society of Accident Reconstructionists (SOAR)
Society of Automotive Engineers (SAE)
National Association of Professional Accident Reconstruction Specialists (NAPARS)
International Edsel Club (IEC); Edsel Owners Club
Thorson Honors Program, Student Member at Colorado School of Mines (2018-2019)