



CURRICULUM VITAE
BRENNAN P. KIRBY

EDUCATION

2023 BS COLORADO SCHOOL OF MINES – GOLDEN, COLORADO
College of Engineering
Engineering Physics

PROFESSIONAL EXPERIENCE

2023 – DATE VECTOR SCIENTIFIC, INC.
Engineer / Research and Testing
Accident Reconstruction
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.

2020 – 2023 NUFLUSH
Head of Design

LICENSES AND CERTIFICATES

2024 / Apr Accreditation Commission for Traffic Accident Reconstruction (ACTAR)
Fully Accredited Traffic Accident Reconstructionist #4981

2023 / Oct Bosch/Vetronix Crash Data Retrieval (CDR)
CDR Data Analyst and System Operator Certification

2023 / Sept Bosch/Vetronix Crash Data Retrieval (CDR)
CDR Technician I & II Certifications

RESEARCH AND TESTING

- 2023 – 2024 VECTOR SCIENTIFIC, INC.
Wheel Separation Vehicle and Occupant Kinematics
- 2022 – 2023 COLORADO SCHOOL OF MINES
Estimated Trajectories of Relativistic Tau Leptons and their Decay Products Produced by High-Energy Cosmic Rays for the EUSO-SPB2 Mission
Collaborate with team of Professors and fellow engineering physics students and NASA to develop code capable of estimating the path of muons and their decay products based on initial conditions.

CONFERENCES, SEMINARS AND COURSES

- 2024 / Jun National Association of Professional Accident Reconstructionists (NAPARS)
Toyota Safety Sense – History and Tech
- 2024 / Mar CA2RS eSeminar
Intelligence Tradecraft: Principles for Transportation Investigations
- 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 / 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

- Society of Automotive Engineers (SAE)
National Association of Professional Accident Reconstruction Specialists (NAPARS)