

Nicholas Van Buskirk
Bachelor's of Mechanical Engineering
Forensic Engineer
Nick@FFE-FL.com

BREIF SUMMARY OF EDUCATION AND RELATIVE EXPERIENCE

Mr. Van Buskirk is a degreed Mechanical Engineer from the University of Central Florida. For over 8 years, Mr. Van Buskirk has been involved with manufacturing facilities, ranging from communication devices to commercial inspection vehicles. In 2025, Mr. Van Buskirk shifted the direction of his professional endeavors to the analysis of vehicular accident reconstruction and investigation. Included in Mr. Van Buskirk's professional experience is the analysis of municipal and state specifications, commercial vehicle customization, and the operation of roadway vehicles.

Areas of Specialization

Accident Reconstruction/Investigation
Mechanical Analysis
Risk Research and Analysis
Simulation Creation and Analysis
Vehicle Crush Analysis
Vehicle Module Downloads
Materials and Fatigue Analysis
Work Zone Standardizations

Education

Bachelor's of Mechanical Engineering
University of Central Florida, 2016
Emphasis: Mechanical Design

Engineer in Training (E.I.T.)

Positions Held

Fischer Forensic Engineering
Cape Coral, Florida
Forensic Engineer 2025 - present

CUES, Inc.
Orlando, Florida
Sales Engineer 2017 - 2025

MtronPTI
Orlando, Florida
Project Engineer, 2016 – 2017

Continuing Education

IPTM - Bosch CDR Tool Technician Training
The Pilot Institute - UAS Part 107 Training

Representative Projects

Mr. Van Buskirk has reported and analyzed a variety of projects including but not limited to the following investigative processes;

Accident Reconstruction
Time and Distance Relative Analysis
Driver Decision / Perception-Reaction Time Studies
Vehicle Crush / Momentum Analysis
Vehicle Safety Systems integration – auto braking/recognition
Bicycle Facility Design / Rider-active Dynamic Analysis
Bicycle/Pedestrian Conspicuity
Vehicle Dynamics
Crash Worthiness / Testing
Photogrammetric Analysis
Sight Distance Calculations
Roadway Geometric Studies
Impairment / Distraction Studies
Motorcycle Design / Operation
Vehicle Handling / Stability
Vision Obstruction
Traffic Signalization Synchronization
Parking Lot Design / Standards
Roadside Drop-Offs / Critical Slope
Barrier Impact / Warrant
Roadway Signage / Markings

Licenses and Certifications

USCG Boating Safety Course Certificate/Active boater

FAA UAG Certificate