

# ANDREW METANIAS

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## TRAFFIC ACCIDENT RECONSTRUCTION

### EDUCATION

UNIVERSITY OF COLORADO, DENVER

BS Mechanical Engineering 2019

### LICENSES & CERTIFICATIONS

Engineering Intern CO  
(EI.0076788)

Remote Pilot, Small Unmanned Aircraft  
Systems - Federal Aviation  
Administration (FAA)

### PROFESSIONAL PROFILE

*Mr. Andrew Metanias* is an Accident Reconstructionist at Explico with additional experience in automotive electronics and management systems. Mr. Metanias started a business that specialized in automotive electronics systems which combined engineering principles with his mechanical background. His experience with control module programming and data analysis provides a solid foundation for analysis of vehicle electronic data and safety systems. Mr. Metanias has conducted testing involving vehicle dynamics, on-vehicle data recorders, passenger vehicle braking systems, and pedestrian impacts. Mr. Metanias holds a bachelor's degree in mechanical engineering from the University of Colorado (2019). During his studies, Mr. Metanias specialized in vehicle dynamics including suspension and brake design and autonomous vehicle development.

### AREAS OF EXPERTISE

Collision Data Recovery & Analysis  
Vehicular Accident Reconstruction  
Motorcycle Accident Reconstruction  
Pedestrian Accident Reconstruction  
Vehicle Accident Simulation  
Conducting Vehicle and Site Inspections  
Documenting Evidence  
Interpreting Damage Patterns

## EXPERIENCE

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### Explico

2023 - Present

*Accident Reconstructionist*

### Autovation Motorsports

2019 - 2023

*Owner and Lead Programming Engineer*

## PEER-REVIEWED PUBLICATIONS

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Rose, N., Smith, C., Carter, N., and Metanias, A. "Validation of Pedestrian Collision Reconstruction Using the PC-Crash Multibody Pedestrian Model," SAE Technical Paper 2025-01-8681, doi.104271/2025-01-8681

## PRESENTATIONS

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"Nondestructive Data Retrieval from Damaged Modules," EDR Summit, Houston, TX, March 11, 2025.

## TECHNICAL CONFERENCES, TRAININGS, AND SEMINARS

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Crash Data Retrieval (CDR) System - Technician

Tesla Event Data Recorder (EDR) System - Technician

Hyundai-Kia Event Data Recorder (EDR) System - Technician

Applying Automotive EDR Data to Traffic Crash Reconstruction - Society of Automotive Engineers (SAE)

Vehicle Crash Reconstruction: Principles and Technology - Society of Automotive Engineers (SAE)

Accessing and Interpreting Heavy Vehicle Event Data Recorders - Society of Automotive Engineers (SAE)