

ALEX IVANOV

720.751.0919
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TRAFFIC ACCIDENT RECONSTRUCTION

EDUCATION

BS	MIAMI UNIVERSITY	2026
	Mechanical Engineering	

LICENSES & CERTIFICATIONS

FAA Certified Drone Pilot - IACRA Registered

PROFESSIONAL PROFILE

Mr. Alex Ivanov is an Associate Accident Reconstructionist with a background in mechanical engineering, product development, mechanical design, vehicle systems, and engineering analysis.

Mr. Ivanov applies CAD, simulation, testing, metrology, prototyping, and data analysis methods to evaluate mechanical systems and document technical findings. His engineering experience includes functional prototype development, CFD-informed design validation, sound and thermal testing, reverse engineering, coordinate measuring machine workflows, and finite element analysis.

His project experience includes leading drivetrain design and development for a student automotive engineering Baja team, including transmission adaptation, four-wheel-drive system research, gear reduction, clutch-system design, and structural optimization using CAD and FEA tools.

AREAS OF EXPERTISE

- Accident Reconstruction
- Mechanical Engineering Analysis
- CAD and Technical Drawings
- Vehicle System Design
- MATLAB and Simulink
- Finite Element Analysis
- CFD-Informed Design Validation
- Metrology and Inspection
- Prototype Fabrication and Testing
- Data Collection and Analysis

EXPERIENCE

Explico

2026 - Present

Associate Accident Reconstructionist

Vitamix

2025

New Product Development Intern

Seaway Bolt and Specials

2024

Mechanical Design Engineer Intern

Miami University Student Automotive Engineering Baja

2023 - 2026

Drivetrain Lead and Driver

TECHNICAL SKILLS

CAD and Modeling: Autodesk Inventor, Fusion 360, AutoCAD, PTC Creo, FeatureCAM, Siemens NX**Programming and Analysis:** MATLAB, Simulink, Java, Python, Microsoft Office, Creo Flow CFD, LabVIEW**Metrology and Inspection:** PolyWorks, coordinate measuring machines, Inventor FEA analysis**Manufacturing and Prototyping:** 3D printing, CNC mill and lathe, manual mill and lathe, waterjet