Advanced Technology Division

U.S. Department of Transportation
Federal Motor Carrier Safety Administration

Jeff Loftus

Federal Motor Carrier Safety Administration

2024
SAFETY RESEARCH FORUM

VIRTUAL EVENT

Advanced Technology Division

- **Purpose**: to identify, develop, test, and deploy innovative technologies to improve the safety and security of commercial motor vehicles.
- **Priority Program Areas:**
  - Automated Driver Systems Research – Automated CMV Evaluation (ACE) Program
  - Advanced Driver Assistance Systems (ADAS) – “Tech-Celerate Now”
  - Roadside Enforcement Technologies
  - Innovative Technology Deployment (ITD) Grants

Advanced Driver Assistance Systems
TECH CELERATE NOW
U.S. Department of Transportation
Federal Motor Carrier Safety Administration

Selected Advanced Technology Division Projects

- **Automated CMV Evaluation (ACE) Program: Inspections, Demonstrations, and Evaluations**
  - Demonstrate, test, and evaluate ADS-equipped CMV inspection procedures, methods, and technologies
  - Assess how automated vehicles interact with emergency response vehicles and work zones to support the development of best practices.
- **ADAS CMV Consumer Testing**
  - Conducting testing of commercially available CMV ADAS to share results with trucking fleets and CMV drivers through the TechCelerate Now program in collaboration with OEMs and NHTSA
- **Vehicle Operations & Maintenance Safety Projects**
  - Researching truck and trailer safety stability issues and conducting a longitudinal study of CMV intelligent tires to assess contributing impacts on CMV crashes
- **Human-ADS Team Driving Simulation Testing**
  - Conducting experiments involving CMV drivers in a truck simulator to gather data on driver fatigue during novel human-ADS team driving scenarios to inform future policies and regulatory activities.

Contact Information

Jeff Loftus

Jeff.Loftus@dot.gov