

UTC Project Information	
Project Title	An Evaluation of Road User Interactions with E-Scooters
University	Virginia Tech
Principal Investigator	Charlie Klauer
PI Contact Information	cklauer@vtti.vt.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	State Farm: \$50,000 Safe-D: \$50,000
Total Project Cost	\$100,000
Agency ID or Contract Number	Grant No: 69A3551747115 Project: VTTI-00-030
Start and End Dates	01/01/2020 – 2/25/2022
Brief Description of Research Project	This research project will investigate road user interactions with e-scooters. The primary objective will assess e-scooter rider interactions with other road user by data mining the VT E-Scooter Deployment project fixed camera video database that is currently being collected on Virginia Tech campus in Blacksburg. The VT E-Scooter Deployment project is a joint venture with Spin and VTTI to assess safety, convenience, and nuisance factors that may occur with the deployment of e-scooters on a college campus. Using three or four strategically located fixed cameras located proximal to campus bus stops, the data will be reviewed to 1) determine e-scooter presence 2) capture e-scooter interactions with other road users, 3) classify these interactions for severity and 4) record general behavior of e-scooter riders (e.g. helmet use, backpack/carriage of other items, speed, following general rules of road).
Describe Implementation of Research Outcomes (or why not implemented)	<ul style="list-style-type: none"> • Present results at SAE Government Industry Meeting • Journal publication • Participate in webinar on pedestrian safety and/or issues in public transport
Place Any Photos Here	<ul style="list-style-type: none"> • Final Report
Impacts/Benefits of Implementation (actual, not anticipated)	Analyses will provide greater understanding of e-scooter rider interactions with other road users and potential countermeasures to improve safety for all road users.

Web Links

- Reports
- Project website

- <https://safed.vtti.vt.edu/projects/an-evaluation-of-road-user-interactions-with-e-scooters/>