



UTC Project Information	
Project Title	Augmented Reality Testing Environment Development – Phase II
University	University of Michigan
Principal Investigator	Yiheng Feng; Henry Liu
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Funding Source(s) and Amounts Provided (by each agency or organization)	CCAT \$108,412 Mcity \$34,953
Total Project Cost	\$143,365
Agency ID or Contract Number	69A3551747105
Start and End Dates	05/01/2019 – 06/30/2022
Brief Abstract of Research Project	The objective of the Phase 2 development is to fully integrate the AR testing environment with Mcity test facility, further upgrade the system to be compatible with the new vehicle development and communication standard (i.e., SAE J2735), include new functionalities, and design new testing scenarios.
Most Relevant CCAT Research Thrusts	<input type="checkbox"/> Control & Operations <input checked="" type="checkbox"/> Enabling Technology <input type="checkbox"/> Human Factors <input type="checkbox"/> Infrastructure Design & Management <input checked="" type="checkbox"/> Modeling & Implementation <input type="checkbox"/> Policy & Planning

<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	<p>Proposed Tasks:</p> <p>Task 1: Setup a Demonstration Platform</p> <p>Task 2: Integrate with Mcity's API</p> <p>Task 3: Design and Implement New Testing Scenarios</p> <p>Task 4: New Function Development</p> <p style="padding-left: 40px;">Task 4.1: Simulation network and traffic upgrade</p> <p style="padding-left: 40px;">Task 4.2: Implementation of Signal Priority</p> <p>Task 5: Communication Protocol Upgrade</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>N/A</p>
<p>Web Links</p> <ul style="list-style-type: none"> • Reports • Project website 	<p>ccat.umtri.umich.edu</p>