UTC Project Info	
Project Title	Automated Traffic Surveillance from an Aerial Camera Array
University	Clemson
Principal Investigator	Wayne Sarasua
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Funding Source(s) & match amounts provided (by each agency or organization)	Clemson University -$39,338
Total Project Cost (includes cost sharing)	$78,676
Agency ID or Contract #	2014-OE-01
Start and End Dates	June 1, 2014 – August 30, 2015
Brief Description of Research Project	The overall goal of this project is to design and develop the automated aerial network monitoring system concept that can identify and track individual vehicles through a network of 16 square miles in near real-time.
Describe Implementation of Research Outcomes (or why not implemented)	The investigators propose to develop a computer vision based traffic monitoring system capable of processing high resolution aerial video to track vehicles and their movements. We propose using an aerial camera array as vehicle sensors that will map the location of vehicles throughout a network in real time. This will allow microscopic data to be collected about individual vehicles which can be used to automate monitoring driver behavior so that erratic vehicle movements can be identified and tracked.
Impact/Benefits of Implementation (Actual, not anticipated)	TO BE COMPLETED AT THE END OF THE PROJECT