UTC Project Information	
Project Title	MPC 433- Real-Time Traffic Management to Maximize Throughput of Automatic Vehicles
University	Utah State University
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Funding Agencies	USDOT, Research and Innovative Technology Administration
Agency ID or Contract Number	DTRT12-G-UTC08, Modification No. 1
Project Cost	$100,000
Start and End Dates	January 1, 2013- May 31, 2015
Project Duration	2.5 Years
Brief Description of Research Project	To increase capacity and the efficiency of the U.S. highways and interstates, common maneuvers performed by automated vehicles such as lane changing, exiting, and merging should be accomplished in such as way as to maximize throughput and reduce, if not eliminate, accidents. Existing work on lane changes, which either assumes restricted number of lanes on a given road e.g., [Habenicht2011, Naranjo2008] or focuses on the collision avoidance aspect of the problem e.g., [Jula2000, Wakasugi2005], does not attempt to reduce congestion by maximizing throughput. **Research Objectives:** The overarching goal of this project is to design a framework to maximize the throughput of automated vehicles during typical maneuvers such as lane changes, exiting, and merging. The framework will consider a transportation system that consists of both automated vehicles and vehicle platoons. The successful completion of this project will result in an increase number of lane changes during a given time interval, less congestion, and fewer accidents.

Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	

Web Links • Reports • Project Website	