



USC Viterbi School of Engineering

Seminar

Ming Hsieh Department of Electrical and Computer Engineering



En Route to the Intersection of V2X and Automated Vehicles

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Abstract: This talk will cover the long journey to vehicle to all (V2X) communications, focusing on the United States but referencing other global regions as well. It will begin with the safety-focused origins for ad hoc short-range communications, then progress to how the underlying radio access technology works, and the C-V2X vs DSRC comparison where ultimately C-V2X emerged as the protocol of choice in North America. The talk will also cover application profiles for a so-called Day 1 deployment and will end with a prognosis. It will progress to the thesis of the talk, that there is still a journey ahead whereby V2X messages could be used for a dream that many academics, policy makers and some OEMs have, a connected *and* automated vehicle or CAV with real-time V2X communication the link between vehicles and the nearby infrastructure.



Bio: Jim Misener is Senior Director, Product Management and Global V2X Ecosystem Lead for Qualcomm Technologies, Inc. He develops and executes C-V2X deployment strategies across all global regions, working with automotive, road owner-operator and telecommunications partners to accomplish broad C-V2X deployment. Jim also develops IoT solutions for transportation markets. Previously at Qualcomm Technologies, Jim led the automotive standards team. Jim was a pioneer in vehicle-highway automation and vehicle safety

communication at the California Partners for Advanced Transit and Highways (PATH) at UC Berkeley. He served as the PATH Executive Director, Executive Advisor to Booz Allen Hamilton, and as an independent consultant. In these roles Jim has experience and reputation from delivering dozens of technology projects with large scale safety impact. In addition to his roles at Qualcomm Technologies, Jim serves as a 5GAA Board member, ITS America Board member and ITS California senior advisor. He also serves on the IEEE ITS Society Board of Governors and is co-chair of the TRB Roadway Digital Infrastructure Joint Working Group. He established and is the immediate past chair of the SAE C-V2X Technical Committee. Jim is an Advisory Council member to Mobility 21-Traffic 21 University Transportation Center led by Carnegie Mellon University and on the Technical Advisory Board to the Center for Connected and Automated Transportation at the University of Michigan. Jim is also a member SAE WCX Technical Advisory Committee. Jim holds BS and MS degrees from UCLA and USC and is an IEEE Fellow.

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