lidar Use in Smart Transportation: Vehicles & Infrastructure

Presentation Topic

The adoption of Autonomous Vehicles in society hinges on the ability to have confidence in the Autonomous systems on the vehicle. This requires a significant investment in test systems. However, testing Autonomous Systems is extremely challenging and novel because these systems are developed on Machine-Learning based algorithms and operate in a near-infinite state-space. Jason Marks from National Instruments will identify some strategies that automakers and suppliers employ to tackle this problem, from simulation-heavy tests to deployable hardware test solutions. He will cover the intricacies of simulation and areas of investment that have not been adequately addressed today.

About the Speaker

Mr. Jason Marks is an Autonomy Business Development Manager from National Instruments, who's worked in Autonomous Vehicle Software development and LiDAR hardware development for the last four years. Jason has architected test strategies for automotive car makers (OEMs), Tier 1 suppliers, and semiconductor organizations, and specializes in testing "black box" machine-learning based systems. Jason holds a patent in LiDAR test and has developed novel approaches to hardware-in-the-Loop testing of automotive image classification hardware.

Join us via livestream:

July 1, 2020
11 AM CDT (9 AM PDT)

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Presentation Topic

A smart city uses information and communications technologies to enhance its livability, workability and sustainability. The starting point is collecting data through sensors and systems in order to measure and monitor conditions throughout the city. That collected data can then be analyzed and turned into intelligence that can assist people and machines to take actions and make more informed decisions. In order to build these smart city applications, lidar is quickly emerging in this space as a useful sensor for identifying and tracking pedestrians and vehicles so as to improve analytics and safety while also providing information for V2X communication. Lidar has become a real driver, enabling municipal governments and businesses to create more livable, responsive environments for their citizens and customers.

About the Speaker

Mr. Jon Barad, VP of Business Development at Velodyne Lidar, is currently leading Velodyne Lidar's efforts in engaging and developing strong partnerships with companies in emerging autonomous markets, including robotics, drones, trucking, smart cities, security, and more.

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