ITS SIGNAL LAB
Life scale testing for connected vehicle applications

Features

ITS Lab is a fully functioning traffic intersection, based on actual streets. The Lab is comprised of a City of San Jose TS2 Traffic Cabinet, programmed for the Zanker Road & Tasman Drive intersection in San Jose, complete with the following equipment and peripherals:

► McCain (ATC eX 2070) Controller with D4 Firmware by Advanced Traffic Solutions
► Savari Networks STREETWAVE DSRC, roadside unit, mobile unit, and software development kit
► Arada Systems (now part of Lear Corp.) LocoMate™ DSRC roadside unit and mobile unit
► Cisco/Cohda DSRC roadside unit with built in GPS & router units
► RSM Tech Radar and Compute units coupled with Simon, an intelligent fuzzy logic platform for measuring and simulating traffic conditions in cities
► DSRC packet sniffer & debugger
► Velodyne VLP-16 LiDAR sensor and display monitor

Applications

Accessible to startups and established companies alike, ITS Lab is a realistic, life-scale intersection platform for:

► Safety applications through vehicle-to-infrastructure and vehicle-to-vehicle communication
► Environmental and geolocation applications such as eco-driving and traffic controls, parking, signal priority, and road/weather information
► Service applications such as data distribution, infrastructure management and system monitoring
► Mobility applications such as commercial fleet operations, traffic networks, roadside operations, first/last mile mobility applications, pedestrian information, freight applications, and transit
Using the ITS Lab

The ITS Lab is meant to be a broad, diverse set of resources for smart infrastructure and connected vehicle innovators. A vendor-supported applications development environment (SDK) is available for interfacing with the hardware in the lab. The lab provides an environment for accelerated testing and deployment of prototypes that demonstrate the readiness of new connectivity solutions. Along with the ITS lab physical assets, ProspectSV has partnered with Microsoft and is developing a data platform for capturing, storing, and retrieving various types of traffic data. Contact info@prospectsv.org to arrange access to the ITS Lab.

Partners

The ITS Signal Lab is made possible because of the support of the following partners: