



Quanergy and Civil Maps Announce Integrated Solution to Power Advanced Real-Time Localization and Mapping for Self-Driving Vehicles

Companies will Demo Atlas DevKit at CES 2017

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SUNNYVALE, Calif.--(BUSINESS WIRE)--Quanergy Systems, Inc., the leading provider of LiDAR sensors and smart sensing solutions, today announced a new integrated solution with Civil Maps, an autonomous vehicle software company providing cognition for cars.

Quanergy's innovative LiDAR technology will power Civil Maps' next generation Atlas DevKit, advancing the ability of self-driving vehicles to perceive and interact with the world around them.

Civil Maps' Atlas DevKit provides a low-cost, high-precision, geospatial data collection system that is essential for safe and effective self-driving vehicles. It integrates Quanergy's M8 LiDAR sensor with cameras, an inertial measuring unit, and wired and wireless communication in one self-contained package. The unit is an inexpensive, commercial off-the shelf platform that is compelling for new market entrants and near-survey grade requirements.

"In order to operate safely and effectively, self-driving vehicles need to maintain an accurate 3D map of their surroundings at all times," said Dr. Louay Eldada, Chief Executive Officer, Quanergy Systems. "This integrated solution will combine Quanergy's unmatched LiDAR spatial sensing technology with Civil Maps' high-precision localization and mapping capabilities. It demonstrates Quanergy's leadership in supplying the highest quality, most affordable LiDAR system to push the boundaries of innovation in the self-driving industry."

"Our Atlas DevKit effectively collects and processes data efficiently from the sensor systems of self-driving vehicles," said Civil Maps CEO Sravan Puttagunta. "It's crucial that self-driving vehicles have the most accurate information from high-resolution 3D sensors such as advanced LiDAR, which is why we are proud to use Quanergy's innovative LiDAR technology. The Atlas unit will equip self-driving vehicles with the most accurate and reliable information to safely navigate any environment, at an affordable price point."

Civil Maps' Context Engine, which brings together the company's proprietary localization technology and its 3D semantic mapping capabilities, enables autonomous vehicles to contextualize their environments; it is able to do so with remarkably low computing power and highly efficient map data transfer. Quanergy's sensor, which has a 360-degree field of view and a measurement range of 200 meters, is a proven LiDAR powerhouse made and tested for 3D mapping, security and harsh industrial environments.

Quanergy will demonstrate its award-winning sensor and 3D smart sensing solutions January 5-8 at the 2017 CES in Booth 4138 at the Las Vegas Convention Center. The integration with Civil Maps will be on display, both in a static vehicle and in live demos on the Las Vegas strip with a car mounted with sensors. Civil Maps will also be demoing the Atlas Devkit at Booth 3100. The company is offering demo rides by appointment only.

About Quanergy Systems, Inc.

Quanergy Systems was founded in 2012 and builds on decades of experience of its team in the areas of optics, photonics, optoelectronics, robotics, artificial Intelligence, machine learning and controls. Headquartered in Sunnyvale, California, in the heart of Silicon Valley, Quanergy offers the world's leading LiDAR sensors and software for the capture and processing of 3D spatial data, and object detection, tracking and classification. Its sensing systems improve safety, efficiency and costs in sectors ranging from transportation and security to industrial automation and 3D terrestrial and aerial mapping. In transportation, the data is utilized in real time to greatly improve the accuracy and reliability of on-board driver safety systems and enhance them with perception, scenario analysis, and decision making capability for cost-effective and robust advanced driver assistance systems (ADAS) and autonomous vehicle (AV) solutions. Quanergy's LiDARs lead in all key commercialization areas – price, performance, reliability, size, weight, power efficiency – while meeting the mass deployment requirements of durability and dependability using solid state technology. For more information, visit www.quanergy.com.

About Civil Maps

Civil Maps builds cognition systems for autonomous cars, enabling them to crowdsource a dynamic 3D map for safe driving. With its Context Engine and augmented reality visualizations, Civil Maps is creating a new generation of maps that enable fully autonomous vehicles to traverse any road safely and comfortably without any human intervention. Civil Maps, based in Silicon Valley and Hyderabad, is working with leading automotive customers and partners across the world to bring fully autonomous vehicles to market at continental scale. To learn more, visit www.civilmaps.com.

Contacts

Quanergy Systems, Inc.

Ann Gargiulo, +1-408-245-9500

Director of Marketing Communications

media@quanergy.com

or

Civil Maps

Alexa Lee, +1-415-439-0540

Marketing Lead

alexa@civilmaps.com