

PRESS RELEASE

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Bosch Rexroth and Geek+ join forces in robotics

Global developer of innovative logistics robotics solutions partners with Bosch Rexroth localization software



Geek+, a leading global robotics developer, will adopt the Bosch Rexroth software component Locator in future logistics solutions (from left to right): Joerg Heckel (Project Director Intralogistics Robotics at Bosch Rexroth), Thomas Fechner (Senior Vice President Product Area New Business at Bosch Rexroth) and Jackson Zhang (Vice President of Geek+ Europe) (Image source: Bosch Rexroth AG)

Geek+, a leading global robotics developer, will adopt the Bosch Rexroth software component Locator in future logistics solutions. The Locator provides reliable positioning and orientation for mobile robots in a wide range of industries and application areas, without any infrastructural measures. The two companies came to a cooperation agreement within just a few weeks. Geek+ was founded in 2015 and has since sold more than 10,000 robots for logistics applications.

As a software component, the Locator is independent of the hardware used by the manufacturer. The encapsulated function block can be integrated into a large number of control systems and supports a wide range of laser sensors, including safety lasers. “We examined the technical parameters and were impressed by the industry readiness of Bosch Rexroth’s solutions, its openness for various hardware configurations and in particular its fast and

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easy commissioning,” said Yong Zheng, founder and CEO of Geek+. The Company headquartered in Beijing is planning to market more disruptive solutions in the area of intralogistics, using the software for its mobile robots. “As a fast growing start-up, speed and global presence with our partners are crucial factors for us”, Yong Zheng emphasized.

“For innovative software solutions, we combine maximum flexibility on startup level with intensive research and profound application knowledge in the area of autonomous driving within the Bosch Group,” added Jörg Heckel, Project Director Intralogistics Robotics at Bosch Rexroth. “We are geared toward collaborating with partners of all sizes worldwide”, Jörg Heckel emphasized.

Within the Intralogistics Robotics project, a large variety of software and hardware solutions around the use of intelligent robots is being developed. Commissioning the Locator is fast and easy: it only takes the push of one button and a single orientation drive to train the vehicle. The software creates a dynamic map, which is stored either locally in the vehicle itself or on a server. In fleet use, all vehicles use the same map. Every change in the environment is automatically reflected. The software component Locator is already used by various manufacturers of Autonomous Guided Vehicles (AGV) and Autonomous Mobile Robots (AMR).

As one of the world’s leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, more than 32,300 associates generated sales revenue of roughly 6.2 billion euros in 2018.

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 403,000 associates worldwide (as of December 31, 2019). According to preliminary figures, the

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company generated sales of 77.9 billion euros in 2019. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 72,000 associates in research and development.

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