

Economy &gt; IT

## [Interview] GTI CEO Kim Ji-young: "Our goal is to become a leader in AMR and smart vision solutions based on Visual SLAM (VSLM)."

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GTI CEO Kim Ji-young

"We will grow into a strong, specialized company that provides timely support for industrial automation solutions through customized consulting and engineering services."

We met with Kim Ji-young, CEO of GTIA, at its headquarters in Siheung, Seoul. GTIA began as a distributor of industrial automation manufacturing equipment and systems and has since expanded its technology to include machine vision solutions and autonomous mobile robot (AMR) control

solutions. Founded in 2020, GTIA is a startup that provides automation-related products, control and edge solutions, and vision and AMI solutions. Despite its relatively short history of just four years, the company has grown rapidly.

Kim Ji-young, leveraging her early experience developing industrial automation products and providing related engineering services, has launched customized technology consulting and product distribution across various fields. This has laid the foundation for GTIA's engineering services, which provide and optimize automation products required across a wide range of industries, including manufacturing, for a variety of small-batch production needs.

In this context, GTIA's customer base is also diverse. GTIA is currently collaborating with automation-related companies such as B&R, an automation company and subsidiary of the ABB Group, Jeju Samdasoo and Samyang Holdings in the food and beverage sector, Mobius in robotics, Hyundai Mobis and Volvo in mobility, LG Energy Solution and JR Energy in the battery sector, and the Korea Aerospace Research Institute in research.

GTA also began investing in the development of its own solutions last year, with machine vision and AMR mentioned earlier as prime examples. Vision solutions are AI vision recognition platforms that utilize cameras, encompassing object recognition through industrial vision cameras and interface technology that integrates these into a web environment.

CEO Kim Ji-young stated, "Smart vision solutions are the foundational technologies for AMRs, which GTA considers a future growth engine. We are developing vision solutions linked to collaborative robots and preparing to supply them as educational equipment first."

He explained that in this regard, given that many expensive AI machine learning and deep learning-based AI vision solutions are already available on the market, the company targeted the niche market of smart machine vision solution educational equipment needed in specialized high schools, rather than high-cost, advanced features. GTIA is also focusing on developing a Visual SLAM solution to conquer the AMR market. This is because SLAM technology, which provides a map to determine its location, is essential for autonomous driving of AMRs. CEO Kim stated, "There are two main types of SLAM for AMRs: LiDAR and camera-based. There are many products that mainly use LiDAR," and "GTIA is preparing a Visual SLAM solution using cameras." Based on [this](#)

, GTIA [has](#) applied for two research and development projects with the Ministry of SMEs and Startups this year. The projects are "Visual SLAM-based location recognition and autonomous driving system for smart logistics robots" and "Development of a multi-channel 2D camera vision system for collaborative robots in [smart factories](#)." He stated that this government R&D project aims to develop a mass-produced AMR based on Visual SLAM (VSLAM) technology, which will serve as a growth engine for GTIA. To achieve this, the company plans to introduce and supply products based on SevenSense's globally proven VSLAM technology domestically, internalize core AMR technology, and develop pilot robots.

CEO Kim Ji-young is an expert in this field, having spent over 15 years implementing automation in industrial settings at companies such as B&R, a global industrial automation company, and Stratus, an automation edge solutions company.

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# Interview

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