Перевод с английского на русский для студентов СПО и школьников

The technology was awarded 1st prize at the DARPA Robotics Challenge.

Ready to operate in any environment, Keyper is an autonomous 4-legged robot designed to conduct industrial inspections, delivering consistently reliable performance and extending the reach of your team, working collaboratively to improve their safety at all times.

Through its technology, Keyper can autonomously conduct industrial inspections, navigating multi-story facilities with total autonomy. Its sensors, cameras, microphones, and 3D mapping capabilities provide real-time insights and alerts.

Its lightweight and impact-resistant structural design provides unparalleled mobility and unprecedented agility. Keyper can move up and down stairs and slopes, climb steps, crawl into tight spaces, and keep balance through changing terrains such as gravel.

The story started when, after decades of working on the development of the first commercialized humanoid robots worldwide, the group of researchers realized that robots were very far from reaching their full potential in the industrial sector. Why did everyone have an autonomous vacuum cleaning robot at home, but no autonomous robots were working alongside humans at production facilities?

To address the very specific needs of the industrial sector, robots required complete autonomy plus the ability to access any place a human could access, including staircases or unstable terrains. So, the researchers started developing an autonomous robotic technology that could tackle these obstacles. At this stage, they came across the DARPA Robotics Challenge, a competition by the USA Government which focused on new ways to find people and objects in underground facilities without internet or GPS - this aligned exactly with the purposes of the technology they had already started working on!

Shortly after Keyper came along: the autonomous robot-dog has been designed to work alongside the staff of industrial plants where hazardous conditions are the norm.

Keyper can access all areas, including those presenting risks for people, and report in real time when it detects an incidence. That is how Keyper protects industrial workers while enabling factories to increase uptime and productivity through continuous monitoring and predictive maintenance.