

## Press release

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05/14/2025

ID: 449

# Outstanding robotics achievement: Hungarian student team among the best in the prestigious FIRST Robotics Competition

- A team of Hungarian high school students achieved outstanding results in the regional round of the FIRST Robotics Competition, one of the world's largest robotics competitions
- The 14-member Hungarian team was sponsored by Robert Bosch Kft., while professional training and mentoring was provided by Robotics Infinity Nonprofit Kft.
- Over a period of three months, the students designed, built and programmed an industrial-sized robot that had to perform on a special competition track
- András Kemler, Bosch: „We believe it is important to support initiatives that provide the next generation with up-to-date knowledge and skills that contribute to their professional development.”

The Hungarian high school team achieved outstanding results in Istanbul, at the regional competition of the FIRST Robotics Competition (FRC), one of the world's largest robotics competitions. The 14-member Hungarian team took part in the competition with the support of Robert Bosch Kft. and the professional assistance of Robotics Infinity Nonprofit Kft., where Hungarian students competed against more than 40 teams and finished in an impressive 4th place.

### What is the FIRST Robotics Competition?

FIRST (For Inspiration and Recognition of Science and Technology) is an international non-profit organization whose goal is to spark an interest in science, technology, engineering, and mathematics (the so-called STEM professions) among young people. The organization hosts several international competitions:

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in the longest-running, FIRST Robotics Competition (FRC), high school teams must design, build, and program industrial-scale, complex robots to perform specific tasks on a themed competition field.

### **Hungarian robot built in record time with Bosch support**

The 14-member Hungarian student team built and programmed the robot in accordance with the specifications in just three months prior to the competition at the Bosch Budapest Innovation Campus. The company not only provided the space, but also the instruments, workshop equipment and tools needed for the competition, as well as financial support. The biggest challenge for the young people during the competition was that they only saw the actual competition track for the first time on site, so they had to find solutions to adapt to the track during the competition.

„We were delighted to support the dedicated team of Hungarian students in the FIRST Robotics Competition. At Bosch, we support young talent through a number of programs, including those for high school students. We believe it is important to support initiatives that provide the next generation with up-to-date knowledge and skills, contributing to their professional development and helping them to realize their potential, and that is exactly what this competition is all about. We believe that some of these young people could become the innovators of the future,” said András Kemler, head of real estate management of the Bosch Group in Hungary and the Adriatic region.

### **Creative problem solving, programming, and artificial intelligence**

The FIRST Robotics Competition stands out from other international student competitions in that it develops a wide range of technical (hard skills) and personal and social (soft skills) competencies in participants, both during preparation and participation. In terms of technical skills, students learn the basics of mechanical engineering and design, as well as various manufacturing technologies. Their electrical engineering knowledge and programming skills are also developed, and young people can learn about embedded systems and the challenges of autonomous control and sensor programming. If the team uses more advanced strategies, they can even integrate artificial intelligence and machine vision technologies into the system.

### **Technological knowledge is not enough: management skills, marketing, and teamwork are already required in high school**

The competition is not just about technical tasks, but also requires serious organizational and management skills, which develop problem solving, teamwork, cooperation, conflict management, time management, and decision-making. In addition, teams must develop their own image and perform marketing and social media tasks: students must not only perform well on the field, but also creatively present their activities and results.

„We are proud of the achievements of Hungarian students. It was inspiring to accompany the young people on their path to success and to see their unique achievements. Whether we are thinking about the challenges of the competition or the creation of future technologies, it is clear that teamwork, cooperation, and creativity are essential for success,” said Sándor Bacsí, systems engineer at Robert Bosch Kft.

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## **Basic information:**

Bosch has been present in Hungary since 1898 with its products. After its re-establishment as a regional trading company in 1991, Bosch has grown into one of Hungary's largest foreign industrial employers with currently eight subsidiaries. In fiscal 2023 it had total net sales of 2.207 billion forints and consolidated sales to third parties on the Hungarian market of 343 billion forints. The Bosch Group in Hungary employs more than 18,300 associates (as of December 31, 2023). Figures of fiscal 2024 of the Bosch Group in Hungary will be published on May 29, 2025. In addition to its manufacturing, commercial and development business, Bosch has a network of sales and service operations that covers the entire country.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 418,000 associates worldwide (as of December 31, 2024). The company generated sales of 90.3 billion euros in 2024. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 490 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 87,000 associates in research and development

The company was set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a limited liability company with a charitable purpose. The remaining shares are held by Robert Bosch GmbH and by a corporation owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG. It is entrusted with the task of safeguarding the company's long-term existence and in particular its financial independence – in line

with the mission handed down in the will of the company's founder, Robert Bosch.

Additional information is available online at [www.bosch.hu](http://www.bosch.hu), [iot.boschblog.hu](http://iot.boschblog.hu),  
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