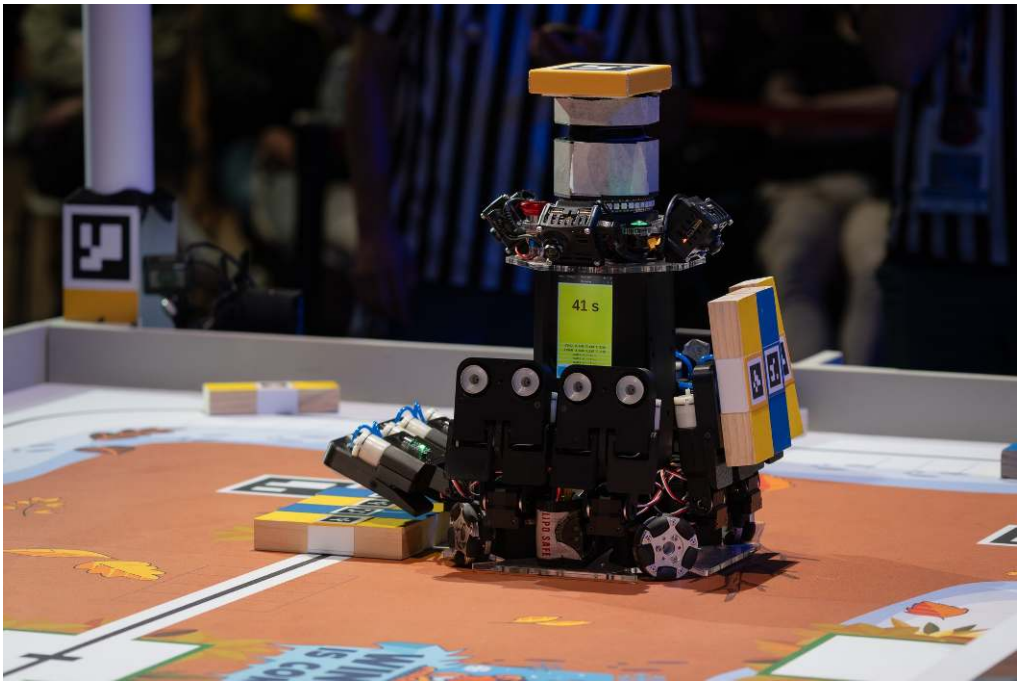
Team Opossum

Passionate engineers, autonomous robots and one goal: the podium of the 2027 French Robotics Cup.



Our robot in a match at the 2026 French Robotics Cup

6
volunteer engineers

$42^{nd} \rightarrow 5^{th}$
progress from 2025 to 2026

120
qualified teams in 2026

2027
aiming for the podium

Who we are

Team Opossum is a non-profit association founded in 2025 by former members of the ENSEEIHT robotics club (Toulouse, France). We are six engineers working in aerospace, defence and automotive (Airbus Protect, DGA, Capgemini Engineering, Stradot). In our spare time, we design, build and program fully autonomous robots from scratch: mechanics, electronics, real-time embedded software, vision and artificial intelligence.

In only our second participation, we finished **5^{th} at the 2026 French Robotics Cup**. In 2027, we are aiming for the podium.



The team at the 2026 French Robotics Cup

The competition

Organised every year by the **Planète Sciences** association, the French Robotics Cup brings together around 200 teams (engineering schools, universities, clubs) and is the national qualifier for the European Eurobot contest. Two teams face each other on a 3 m × 2 m table: with no human intervention at all, their robots must complete as many game actions as possible, which change with each edition. Matches are open to the public and streamed live on YouTube.

The 2027 theme, **The Legend of Camelot**, asks robots to build a castle by stacking cardboard "stones", to raise a Grail as high as possible and to send small knight robots to storm the opposing camp. As the rules change every year, each season is a new engineering project, delivered in eight months.

Our robots

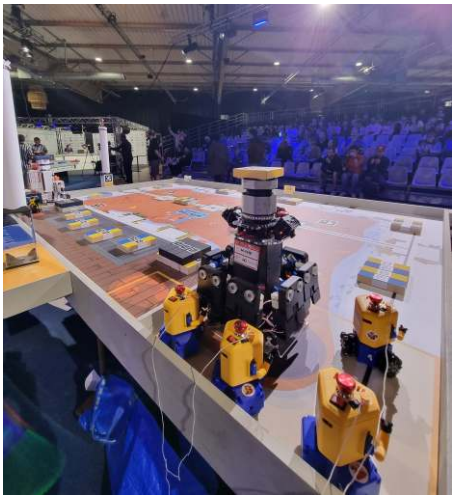
Our main robot moves in every direction and is among the fastest in the competition. It is joined by **PAMIs**, small autonomous robots that come into play at the end of the match. Everything is designed by the team: mechanics, electronics, software and artificial intelligence.

Our track record

2025 – 42nd
first participation

2026 – 5th
out of 120 teams

2027
aiming for the podium



The 2026 robot and its PAMIs on the game table

Our technologies today

- **Holonomic** base with omnidirectional wheels
- **Lidar** localisation, inertial measurement unit and sensor fusion
- **Vision** with smart cameras
- Real-time electronics on **FPGA**, high level on **ROS2**
- Circuit boards **designed by the team**
- **Embedded AI** in the PAMIs

What we are adding in 2027

- An **industrial lidar** for even more precise localisation
- A **strategy trained by reinforcement learning**, in a simulator developed by the team
- **New actuators** designed for the 2027 theme
- A new generation of PAMIs with **AI vision**

Why support us?

Employer branding

The Cup gathers over a thousand participants, mostly engineering students in mechatronics, electronics, embedded software and AI: exactly the profiles industry is looking for.

Visibility

Your logo on our robots streamed live, on our stand, on our website and in our Instagram and LinkedIn posts throughout the season.

Product showcase

Your components tested in real competition conditions, featured in our content, with detailed technical feedback.

Commitment

Concrete support for science education and the training of tomorrow's engineers, alongside Planète Sciences.

939	300k+	6,000+	2,300+
Instagram followers	video views	likes	shares

Our Instagram audience (@scrat_opossums) over two years, as of October 2026.

How to support us

We are looking for **financial**, **in-kind** (components, manufacturing, equipment loans) or **skills-based** support, for the 2027 season and beyond. Every partnership is different: we define the benefits together, in a meeting, based on your goals.

They already support us:

The **DGA** (French Defence Procurement Agency) supports us with equipment and invited us to demonstrate our robot at its *family days*; **JLCPCB** manufactures the circuit boards we design.

Let's meet!

We would be delighted to present the project and our robots to you, and to build a partnership that suits you. Our full partnership file is available on request.

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Instagram: @scrat_opossums
LinkedIn: Team Opossum