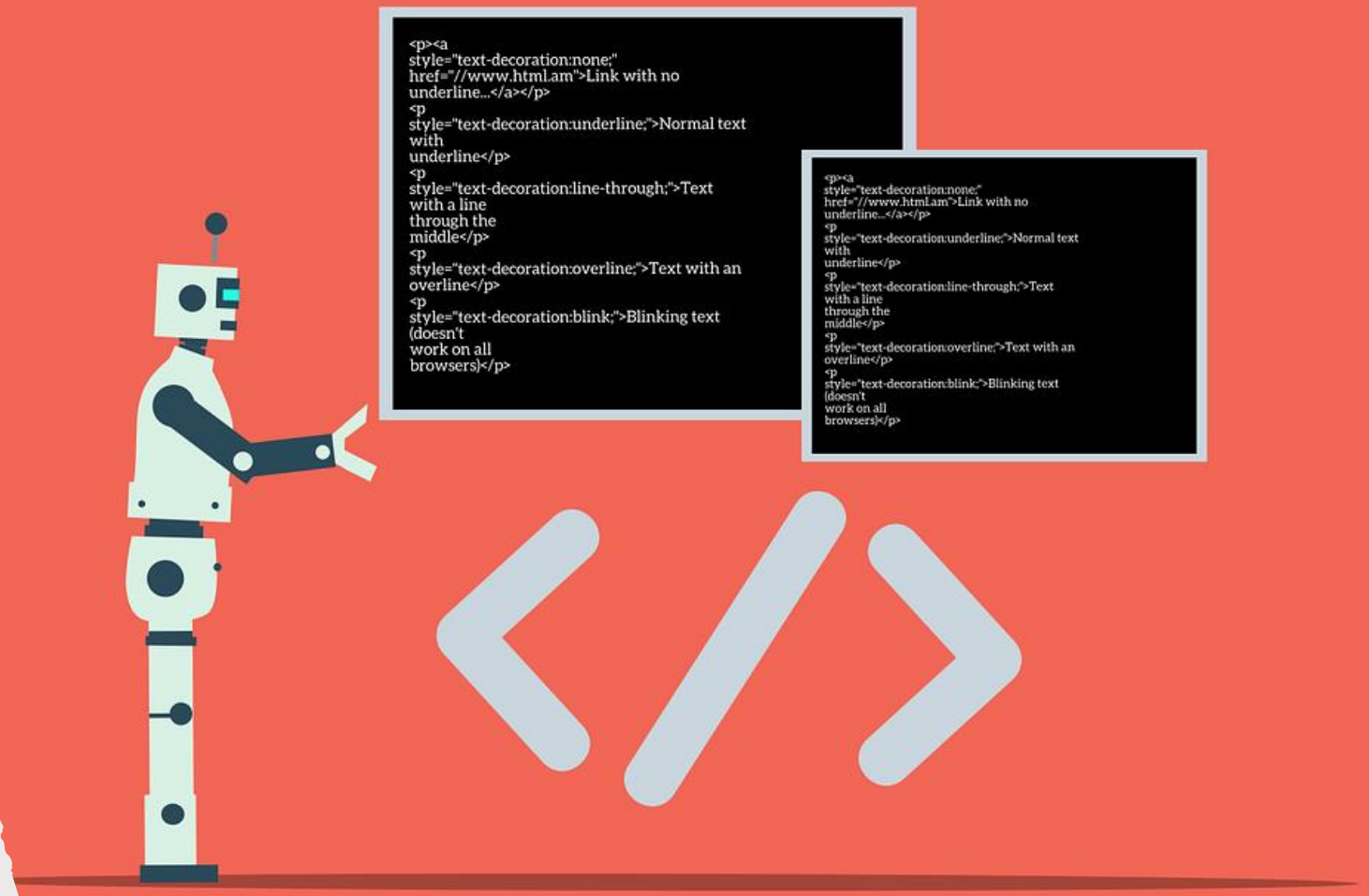
Programming, Artificial Intelligence and Robotics

Presentation

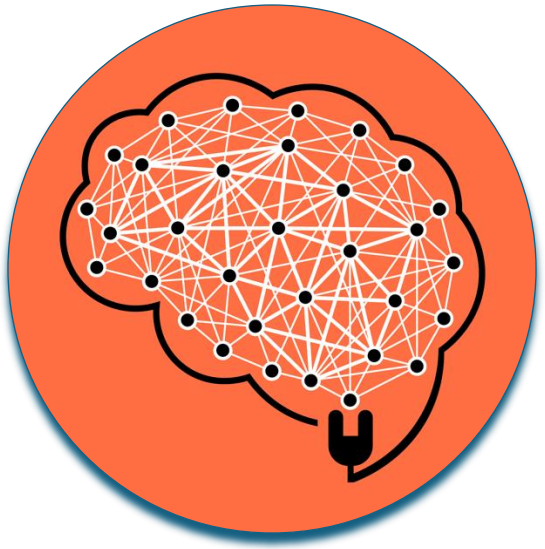
2024/2025 · 2ESO

Enrique Benimeli

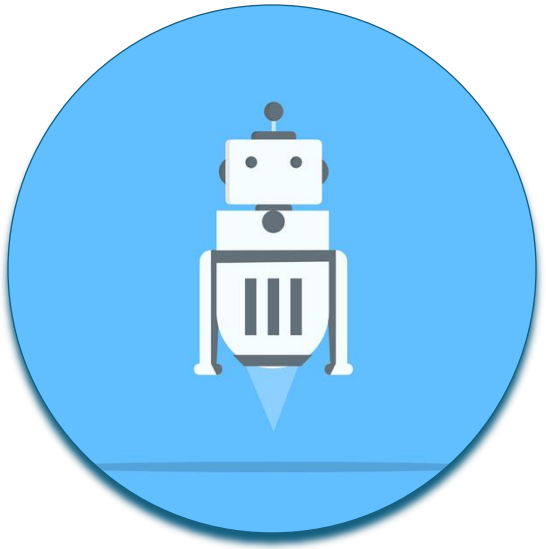


PAIR (PIAR)

Programming



Artificial **I**ntelligence



Robotics

Challenges...

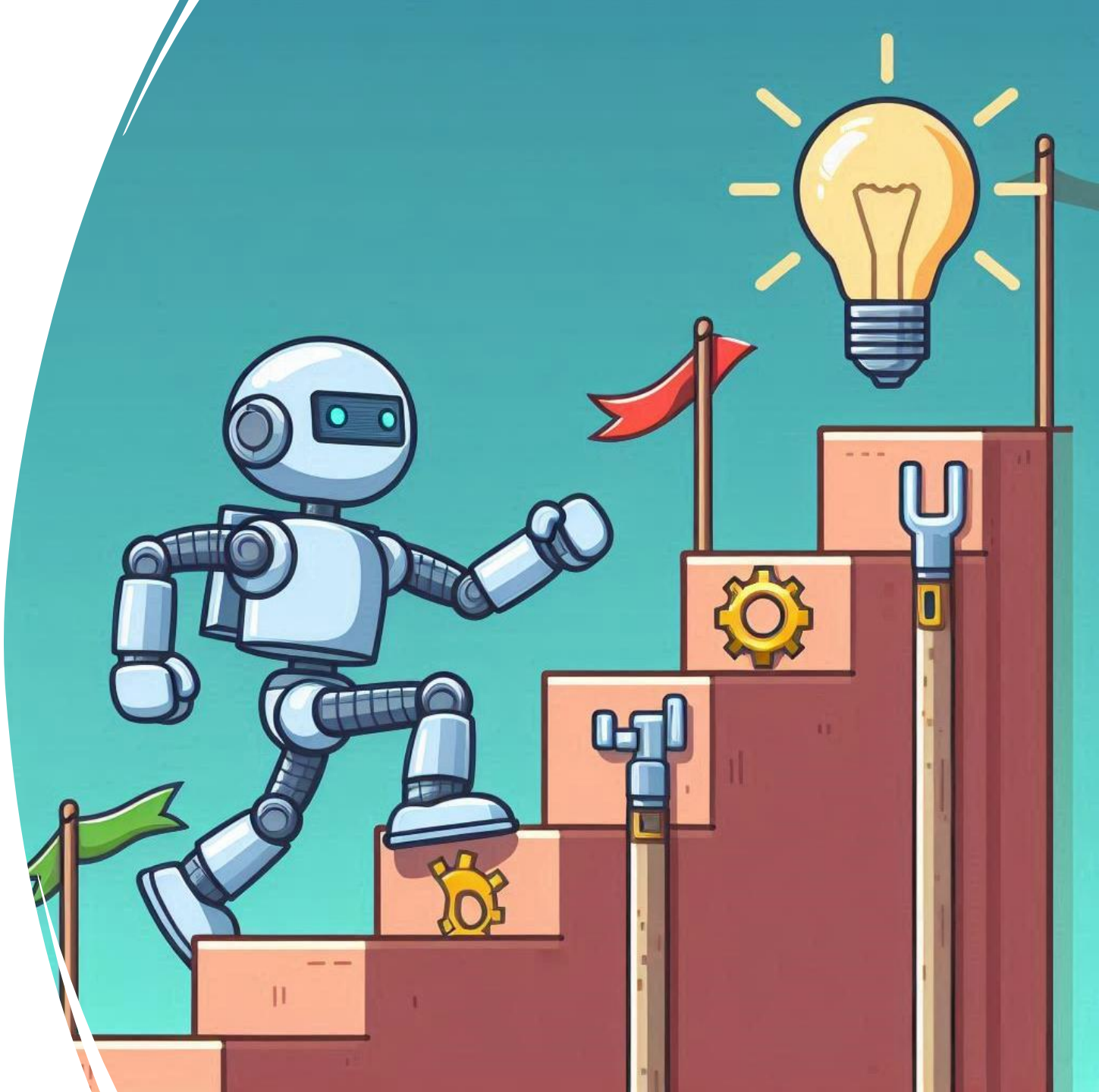
...and solutions

5

Goals (I)

1. Identify, research, and employ **artificial intelligence** and **reality virtualization** techniques in addressing and seeking solutions to basic societal problems, evaluating the **ethical** and **inclusive** principles applied.

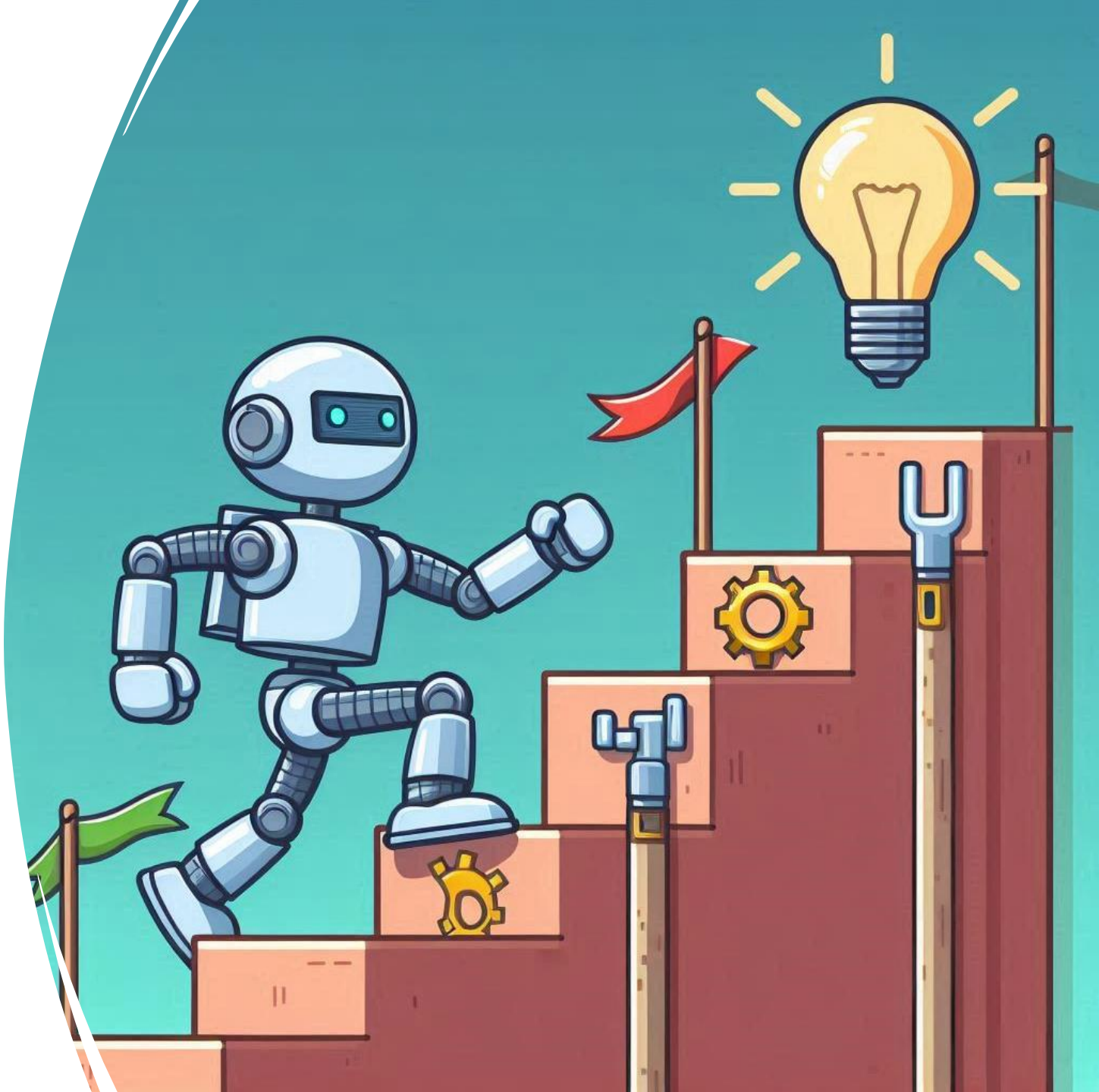
2. Apply **computational thinking** in the analysis and resolution of basic and significant problems for students through **software development**.



Goals (II)

3. Assemble simple **robotic systems**, analyzing the responses they provide in their **interaction** with the environment and evaluating the effectiveness of these responses in facing the challenges presented.

4. Tackle simple **technological challenges** and propose solutions through programming, artificial intelligence, and robotics, analyzing the possibilities and critically evaluating the **ethical** and **ecosocial** implications



Goals (in plain English)

1. Learn to use **AI** and **virtual reality** to solve simple problems in society, while thinking about what is **fair** and **right** for everyone.
2. Use **coding** and problem-solving skills to create **software** that helps with everyday challenges.
3. Build basic **robots**, see how they react to their surroundings, and check if they work well.
4. Solve simple tech **problems** using coding, AI, and robotics, and think about how these **solutions** might affect the world and the environment.

AI and VR

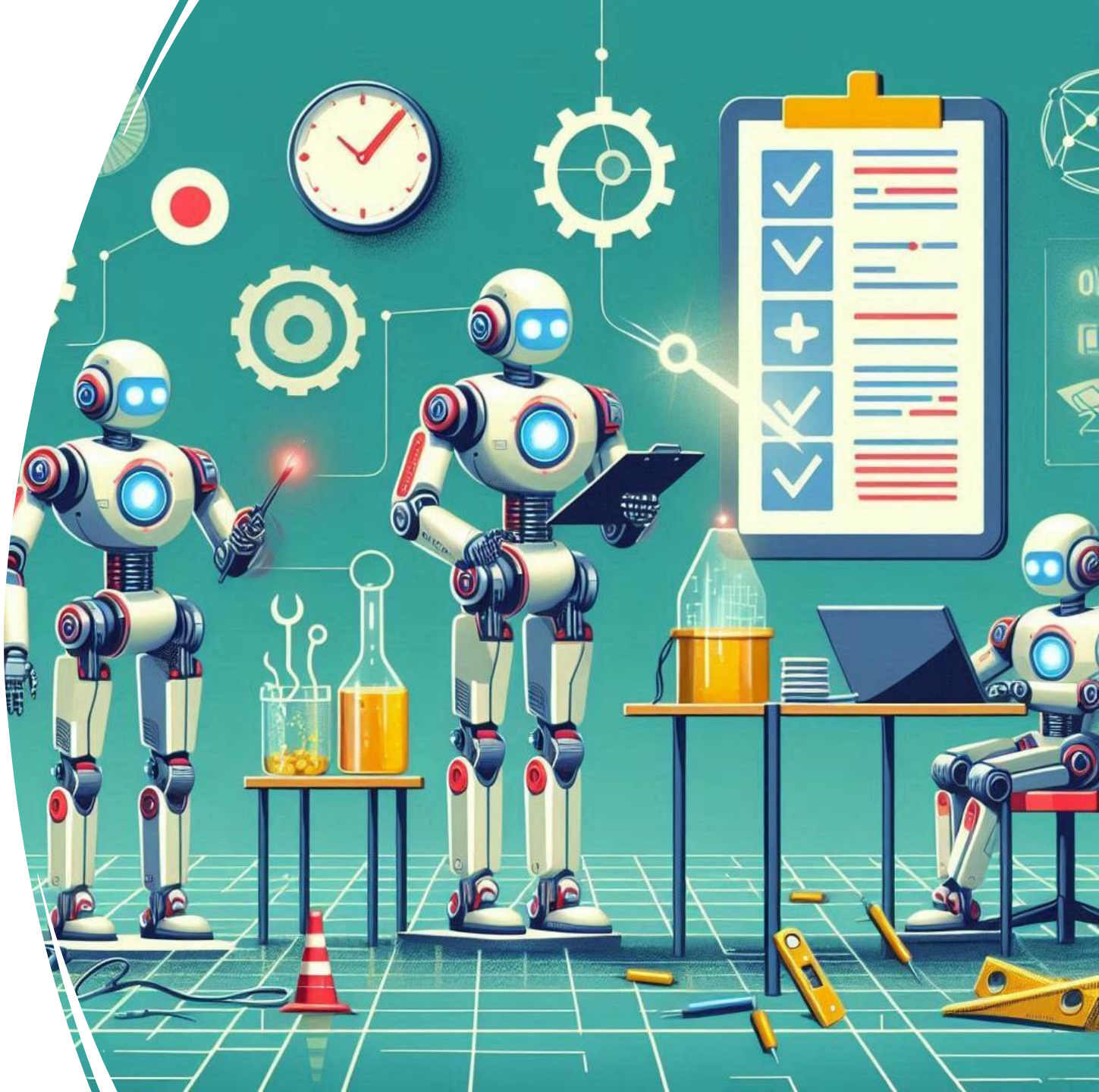
Learn to use **artificial intelligence (AI)** and **virtual reality (VR)** to solve simple problems in **society**, while thinking about what is **fair** and **right** for everyone.

Coding

Use **coding** and problem-solving skills to create **software** that helps with everyday challenges.

Robots

Build basic robots, see how they react to their surroundings, and check if they work well.



Problem Solving

Solve simple tech problems using coding, AI, and robotics, and think about how these solutions might affect the world and the environment.