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AUFNAHMEPRÜFUNG GYMNASIUM

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1 RoboCup

2 RoboCup, a yearly football event since 1997, is not your typical soccer match. Instead of human
3 players, it features robots. Officially named the 'Robot Soccer World Cup,' its big aim is to
4 create, by the middle of the 21st century, a team of robot footballers that can compete with and
5 beat the winners of the real World Cup.

6 Making robots play football needs special technology. These mechanical players can't just run
7 onto the field and start kicking the ball. Each robot has a webcam connected to a computer
8 inside it. This allows the robot to see where other players are, where the goal is, and, most
9 importantly, where the ball is. They are programmed to make their own decisions during the
10 match, and their creators are not allowed to tell them what to do. However, the robots can
11 communicate with each other through a wireless network. They might send a message like, 'I'm
12 closest to the ball. I'm going to kick it. You go and defend the goal.' Teams from Australia,
13 Germany, and the USA dominate the competition, with teams from twelve countries
14 participating in the last tournament.

15 Even though humans still dominate football, the journey toward creating smart robots presents
16 exciting opportunities for technology. For robots to compete with humans, they need to become
17 more intelligent, quicker in their reactions, and better at guessing how the game develops. The
18 technologies developed for scoring goals, though, have other uses too. They might help create
19 robots for search and rescue missions, finding people trapped in buildings after earthquakes.

20 As we look forward to seeing how robots evolve in football, questions come up about how these
21 technologies might change our lives. While robots playing sports may not have the same
22 emotional effect as human players, it introduces new possibilities. People wonder about the
23 future of RoboCup and how robots might be part of our daily lives in different ways. In the
24 future, robots might handle package deliveries. Drones or ground-based robots could deliver
25 packages to homes, reducing the need for human delivery personnel.

26 But the integration of robots into various aspects of daily life has an influence on employment
27 and the workforce. As robots take on tasks traditionally performed by humans, worries and
28 discussions come up about the future job market. As the use of robots in deliveries may make
29 deliveries work faster, it also starts discussions about the future of delivery personnel. While
30 robots helping with deliveries can be good, it also means talking about how some jobs

- 31 might change or even go away. Figuring out how to make the best use of technology without
32 causing problems for people's jobs is important as we move into a future where robots will be
33 more and more a part of our everyday lives.
- 34 To come back to RoboCup, the robots may not be as fun to watch as real footballers, but at least
35 they don't demand enormous salaries!