

now, there are robots taking your items off the shelves, transporting them across the warehouse floor and packaging them.

Robots can be seen all over our homes, helping with chores, reminding us of our schedules and even entertaining our kids. Additionally, robots have now evolved to do everything from autonomously mowing grass to cleaning pools.

Robots have made enormous strides in the healthcare industry. These mechanical marvels have use in just about every aspect of healthcare, from robot-assisted surgeries to bots that help humans recover from injury in physical therapy.

<https://builtin.com/robotics>

2. Read the text again and say whether these statements are true or false.

1. Robots replicate human actions.
2. Nowadays robots are used mainly at automotive factories.
3. All robots have mechanical, electrical and programming component.
4. Humanoid robots look like and/or mimic human behavior.
5. Autonomous robots still require human supervision.
6. Robots are rarely used in other spheres apart from manufacturing.

3. Make a short summary of the text.

LANGUAGE FOCUS

THE GERUND

Consult grammar rule using the link:

<https://drive.google.com/file/d/1yTuCwBBQgywDZWsjcwKMThA9cYPKTXTu/view?usp=sharing>

1. Rephrase each sentence so that it begins with the Gerund as a subject.

Example: *It's important to do your own research.*

Doing your own research is important.

1. It's getting easier to equip robots with powerful sensing and computing systems.
2. It's necessary for industrial robots to detect objects or people nearby.
3. The current approach is to teach robots.
4. It took lots of experiments to confirm this hypothesis.
5. It's rather challenging to give a robot biped locomotion.
6. It's not hard to write code in Python.
7. It's essential to get anti-virus software that is suited to your computer type.

2. Link these sentences using prepositions (in, without, by, instead of, before) + Gerund.

Example: *Scientists conduct undersea research. They apply newly developed soft robots. Scientists conduct undersea research by applying newly developed soft robots.*

1. In Japan, engineers have taught a robot to dance. They demonstrate the movements themselves.
2. We were able to translate the article into English. We didn't use a dictionary.
3. Military robots are designed to assist troops. They carry heavy gear.
4. People don't perform certain hard and dangerous manufacturing tasks themselves. They use robots.
5. First, check reputable forums or review sites. Then download a free app or a browser plug-in.
6. Some robotic exoskeletons have industrial or military applications. They give the wearer added mobility and endurance to carry heavy loads.
7. Telemedicine robots allow doctors to check on patients at another hospital. Doctors don't need to go there.

3. Complete the sentences using the words from the box.

looking, capable, prevent, interested, insist, concentrate, responsible
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1. Are you ____ in taking a robotics course, and become a roboticist?
2. Isaac Asimov's Three Laws of Robotics were designed to ____ a robot from harming humans.
3. A robot is an autonomous machine ____ of sensing its environment, carrying out computations to make decisions, and performing actions in real world.
4. Big industrial companies are ____ forward to deploying cost-effective, multipurpose and collaborative machines.
5. Who will be ____ for carrying out this task?
6. Just try to ____ on improving the learning algorithm of a robot.
7. They ____ on integrating the collaborative robots into the manufacturing process as soon as possible.

4. Put the verbs in brackets into the Infinitive or the Gerund form. These verbs can be followed by either the Gerund or the Infinitive with a change in meaning.

1. A collaborative robot automatically stops ____ (work) when anybody gets too close to the machinery.
2. I remember ____ (build) and ____ (program) my first real robot with Lego Mindstorm.
3. Don't forget ____ (join) us for coffee break!

4. A self-driving car detected a pedestrian and stopped ____ (let) him cross the road.
5. Remember ____ (switch off) all the appliances before leaving.
6. We recommend ____ (read) independent reviews and ____ (watch) videos to see which antivirus you might like ____ (use).
7. When you combine sensors, computers, actuators, and user interfaces into a robot and try ____ (operate) it in the real world, things still don't work perfectly.
8. The company regrets ____ (inform) employees that the Minsk office will close next month.
9. – The robot vacuum isn't working. I wonder what's wrong with it? – Have you tried ____ (recharge) the battery?
10. I forgot ____ (type) an extra set of parentheses, as a result the code in Python didn't work.
11. Now they regret ____ (invest) into this costly equipment.
12. I would recommend you ____ (integrate) 3D sensing technology with your robot.
13. – Have we already discussed this topic? I forget ____ (read) about it.

5. Put the verbs in brackets into the Infinitive or the Gerund form.

1. Would you like ____ (participate) in 3D technology conference?
2. Do you like ____ (read) e-books?
3. We decided ____ (implement) collaborative robots for pick and place operations.
4. I prefer ____ (learn) online to ____ (learn) in the classroom.
5. – Shall we leave now? – I would prefer ____ (wait) a little bit.
6. I'm learning ____ (speak) German.
7. – Do you mind ____ (work) extra two hours?
8. I enjoy ____ (drive) a car.
9. Julia wants ____ (practice) more English.
10. This antivirus needs ____ (update).
11. They decided ____ (adapt) their software for the maximum number of systems before release.
12. Ivan has suggested ____ (develop) a cross-platform application.
13. Have you finished ____ (write) up a defect report for a developer to look at?
14. We are planning ____ (start) a new project next week.

SPEAKING

Robots are vastly used in all spheres of our lives. Speak about why and how robots are applied in the workplace, in the army, and medicine. Use the ideas and prompts below.

Robots in the workplace

- offer safety