

Mesleki Yabancı Dil 1 Dersi

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Hafta 10

HOW ROBOTS MAKE OUR LIVES EASIER

- A robot is a completely self-controlled electronic, electric, or mechanical device.
- Many of these devices in use today do jobs that are especially difficult for human workers, e.g. jobs that require great strength or pose danger, such as car industry where parts of automobile must be welded together.
- Spray painting is another task suited for robots because robots do not need to breathe.
- Third in the list of useful jobs for robots is the assembly of electronic parts.
- Earlier robots were usually blind and deaf but newer types of robots are fitted with video cameras and other sensing devices that can detect heat, texture, size, and sound.
- These robots are used in space projects, nuclear reactor stations, and underwater exploration research.
- In their efforts to expand the range of robotic applications, researchers are looking beyond traditional designs to examine a variety of potential models from the biological world.

- The industrial arm is a classic example. Scientists have been able to model robots to imitate the vertebrate spine of a snake in order to paint the interior of automobiles.
- They have simulated the muscle structure and movement of an elephant's trunk in an attempt to create a robotic arm capable of lifting heavy objects.
- Scientists have also emulated the flexibility of an octopus where the tentacles can conform to the fragile objects of any shape and hold them with uniform, gentle pressure.
- A variation of this design can be used to handle animals, turn hospital patients in their beds, or lift a small child.
- The boring and dangerous jobs are now assumed by robots.
- Finally, their use in medicine has saved many lives due to their accuracy and reliability that have outcome the surgeons in numerous applications.
- Some surgical procedures using robots are less aggressive, “spill” less blood, and the possibility for human errors is much smaller.