

ROBOTIC INTEGRATION IN OUR LIVES

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A robot is a system that contains sensors, control systems, manipulators power supplies, and software all working together to perform a task.

Nowadays people more and more use machines in daily life, robots are always on the first place. Indeed, implementation of robotic integration into everyday life means that everyone can rely on them in doing different physical tasks, just as these days applications for computer tasks are reliable. A hundred years ago mankind could only imagine how they would use robots in everyday life. Today robots are used at homes, offices, and industry, they will become helpers that can do much more than we do alone. Robots will give us great possibilities in transport system, architecture and building and even the creation necessary things. Robotics will have a tremendous influence on our future life in all spheres and will be widely used in daily life. To my mind, it will happen in the nearest future.

Let me introduce a quick summary about robots’ impact on our lives now and in the future:

Industry: industrial robots are becoming more and more popular. Almost all the factories are with optimised and *automated production* and, in the future, they all will use work of robots, which can work for hours without rest, and compared to humans they do not need vacations and they do not complain. Its use helps to increase and grow the economy, as people need innovations and creation of new products and services. We will get new jobs and business opportunities.

To be honest, robots will do almost all jobs that demand manual and routine activity.

Medicine: scientists have always tried to find new technologies in order to help with care and treatments improving. In medicine field with the help of robots

even difficult surgeries are made. However, a surgeon controls and sees everything through a camera, a robotic arm does the actual surgery, which helps to provide the highest exactness in delicate surgeries. Robotic systems in nursing care to support the arduous work of the individual professional and to counteract the imminent staff shortages.

Robots are more easy-learnt, cheaper in service and refuel, and they cannot be bored by routine tasks. They could help the elderly and chronically ill to remain independent, reducing the need for carers and the demand for care homes.

To help cleaning patients' rooms there are automatic disinfections, which irradiate with powerful UV rays. It guarantees that no bacteria survive and reducing of infections' number. Also new gyroscopically actuated robotic limbs exist, they can substitute a traditional prosthetic. Scientist invented exoskeletons that can help people, which have problems, to move.

Education: Although humanity has not yet lived to the time when the robot will stand in front of the classroom and teach students. But in my opinion, it will not take so much time to wait

The most popular way of using robots in education is to help kids with disabilities and give them high-quality education. A good example is Nao, a robot that connects with autistic children and adapt to their specific needs to help them with learning. Nowadays even robots developed for children which cannot attend school because of injuries or illnesses, these robots make a child feel like in real class.

Concrete objects such as manipulatives have been used to teach children abstract concepts for many years (Bers & Portsmore, 2005, p. 61). Robots for education promote motivation to learning in many ways.

Home: Robotics at our houses are introduces from vacuum cleaners, that are basic models, to advanced robots that can remember your home and decide which is the best way of cleaning. Also there are robots that can take care of your lawn or clean your pool. If you need to carry your things, there are robots like Lynx. And if you need a companion, a

friend then there are robots like ASUS' Zenbo that can share his emotions with you, read to children, and even protect your home when you're absent.

Service industry: Sphere of service continues to increase using robots with each day. For example, in China there are robotic baristas and robot servers that bring dishes to tables. It is obvious that such restaurants and cafes are leading. The other great example is tourism. In Japan there's a such hotel with staff of robots, they can give information, take petitions with the help of voice and facial recognition technology.

To sum up, robotic integration has many advantages and can be very helpful in manufacturing, with the help of robots people can improve business processes. Robots will help us in many tasks, but we must remember that their excessive use can increase bad consequences.

In the end, before starting using robots we must think about impact they will have on our lives, we use robots in order to satisfy our personal goals, so they can not harm people. Robots will have more and more influence the way we live. However, we must make many efforts our human essence will not change and our abilities will stay untouched.

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