

# IT Technologies (Robots)

## What does it do?

There are many different types of robots, the first kind of robots that appear in people's eyes are industrial robots, they were widely used in industries, some areas like production lines, manufacturing, distribution centres, foundries. There are some benefits about industrial robots. For example, those robots are more efficient than humans, they can be programmed to operate 24/7, they are also flexible and can be customised to do some complex tasks. Today, industrial robots becomes very popular and important, because using robots can be highly cost-effective for every company. However, robots also can be used in other areas such as military uses, medical uses and even house uses.

In 21 century, we have seen most of them were connected to the central. they can automatically provide data of their productions allocate their work very well. In the house uses area, cleaner robots help us clean the house, we can set start time and end time to the cleaner robots, check their realtime status on the mobile, sending instructions from the other side. Recently, these robots are not simply programmed to perform tasks. They can recognise objects, respond to objects without depend on external control in a specific environment, collect data and learn independently. Information technology enhanced their ability therefore more goals can be achieved. They are getting smarter, more powerful even learning from their work. Robots appears in many different formations, some of them are human simulated and others can be very practical. They can walk automatically, talk to people, save lives, involve critical jobs in extreme environments or do some simple tasks while we are enjoying our lives. Now, robots takes a huge part of our life and human were rely on them now more than ever.

In next 3 years, the robots will play an increasingly important role in any size of company and life, the robots will be more complete, such as the response of robots will be faster, more thoughtful, they can identify right and wrong. The robots in some areas like healthcare that will be used for a variety of surgical widely. With the development of artificial intelligence,

more families will consider using robot to manage their house work. The robots have been created with human like features today, in the next 3 years, they will be more attractive, more social and more capable of communicating in humans way.

There are some important technologies and development that make robots better. The first important technology is motor control, it controls the operation of the robots. The speed, accuracy and mechanical ability of the motor that will increase the ability of robots and control them to perform complex tasks. The second important technology is sensors, the robots do not like people, the robots use sensors to sense the world around him, the sensors will scan object and collect the data such as temperature, weather, then send back to processor and compare it with an existing database to analysis those information, what the object is made of, or what is it.

### **What is the likely impact?**

what is the potential impact of this development?

This development would be make our lives easier and more efficient, we do not need to spend time on a part of work, the robots will do the job for us. It bring many benefits to the company, such as increase the productivity of business, reduce company expenses. Robots will save us from a future of high prices and low wages.

what is likely to change?

The robots will change so many areas, the most important change would be save life, more and more robot would be used in medical uses. As time develops, the technology becomes more complete, people would be able to make micro-electronic, it means smarter circuits can be put into smaller and more function robotic arms. This will result in a large number of surgical robots would be used in medical treatment.

which people will be most affected and how?

This development will affect most people in different way, but most of the impact is positive. For families, this development will bring convenience like clean house, take care for the elderly and cooking for them, For the

military, this development would be instead of army to working in unsafe environment and reduce unnecessary casualties. This technology will affect doctor as well, through this technology, I think doctors can reduce accident during surgery, ensure the success rate of the surgery.

will this create, replace or make redundant any current jobs or technologies?

All of these situation will be happen, because of this development, the market will need a large number of talent to further develop the technology. On the other hand, more and more different kinds of robots are causing some jobs to be replaced, such as service industry, household industry and others.

### **How will this affect you?**

This will make my life more efficient, I do not need to set the alarm clock, the only thing that I need to do is to tell the robot the time that I want to get up. The robot will cook for me and clean the home, sweep the floor, fold laundry and clean garden. When I receive important email or phone call, the robot will tell me on time. If I need to go to hospital, the robot can take me to the hospital, I do not have to be afraid of surgery, because the robot can perform tasks very accurately.

Because the robots can do most things, so my family and friends have enough time to enjoy lives. bring a robot go to holiday with family or friends, the robot will take care of all stuff. The robot has many functions such as play music, play video, play game and talk with us. When we are feel sleepy, we can tell the robot the destination and it can drive by itself. Because of the existence of robots, I can spend more time with my family and friends.