

Things to know about a computer engineer

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In the era of information technology today, the demand for recruitment for positions in technology sector is increasing, and jobs in this field are becoming the dreams of very many young people, one of whom is computer engineer. Computer engineers will basically be the ones responsible for designing, developing, deploying and testing both the hardware and software of a computer system. This system also includes components found inside computer equipment, as well as practical devices that contain computers and software running on those machines. Computer engineers can also design network networks that connect computer systems as well as take on the role of integrating software programs with computer hardware.



Qualifications for a computer engineer

To become a computer engineer, usually you will need to have a bachelor's degree or an engineering degree in computer engineering, computer science or electrical engineering. However, today with the development of online education and direct bootcamps, becoming a computer engineer or programmer without formal qualifications is much easier.

Important technical skills to become a computer engineer

In general, the field of computer engineering is quite wide, the technical skills needed to be listed in the recruiting articles will vary, depending on the work that focuses on hardware or software more, and of course the real requirement of employers.

Typically, a computer engineer will need to have the following elements:

1. There is an understanding of the specific computer hardware architecture that you will work with.
2. experience in designing, coding and testing software systems.
3. Familiar with the procedures or system commands to test the software.
4. Experience in building your own PC system.
5. There is a golden understanding of different operating systems, including Windows and Linux and how certain types of software will work on these operating systems.
6. Experience in contact with device drivers (drivers).
7. Have an understanding of network and security systems.
8. Having an understanding of software (sometimes specialized) is often used in a specific field.
9. Knowledge of programming languages ??such as C ++, Java and other object-oriented programming languages.

Other important skills

Because computer engineers often have to work closely with programmers, designers, product developers and testers, they really need to have effective communication and communication skills as well. like the ability to work very well.

Fields will need computer engineers

Computer engineers have the potential to work in many fields, including (but not limited to):

1. Telecommunication.
2. Make.
3. Transportation.
4. Product development.

Here are some other interesting areas related to computer engineering:

1. Working with radar technology and communications.
2. Support to improve the performance of calculation systems for medical and nuclear fields;
3. Support the development of military software
4. Hardware design and software integration for robotic devices.

The future of computer engineering profession

One thing we can be sure of in the future of computer engineering is that it will be a promising industry and bring many opportunities to assert itself as well as create a career for young people, But of course there will be no roads full of roses, there will be many challenges that computer engineers will face in their careers.

Most recruitment needs for computer engineer positions belong to the private sector. However, for a long time, there were some people concerned about the recent decline in the budget devoted to the study of computer science and engineering, especially in government agencies. In addition to the lack of funding, many computer engineers and people working in related fields have little interest in serving in state agencies.

Undoubtedly, computer engineers are the people who play an important role in the future of any country in this 4.0 era, especially in the private and public sectors. IT has been impacting every aspect of your child's life from database infrastructure to implementing public policies (such as computer science and related systems). , computer engineers will be one of the jobs that make human development in this century.

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