

Analysis of Problems in Electronic Technology and Communication Engineering

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Abstract: With the continuous improvement of the level of science and technology in our country, the rapid development of information technology represented by computers and the Internet, and the deep integration with all walks of life in all walks of life, has profoundly changed people's way of life and production. Now electronic technology and communication technology have penetrated into all aspects of people's lives, providing great convenience for people's lives, and greatly improving people's quality of life. Electronic technology and communication engineering are inseparable, so we should give full play to the mutual promotion between the two, promote the continuous development of electronic technology and communication engineering, and make greater contributions to social development and economic progress. This paper deeply analyzes the application and development of electronic technology and communication engineering in actual production and life, hoping to contribute to the continuous progress of electronic technology and communication engineering.

1. Introduction

In the present age, science and technology have become very important productive forces. All trades in society must constantly update the technology they use in order to adapt to the development of the times and create more economic benefits. Electronic technology is a very representative frontier science and technology. Now the degree of integration of electronic technology with the industry is an important indicator to measure the development potential of the industry, and electronic technology has penetrated into every corner of people's lives, greatly facilitating people's lives and bringing profound changes to people's lives. Communication engineering is an important industry in the field of applied technology. With the deepening of social informationization, communication engineering has ushered in a very broad development prospect. In the future, many industries such as the Internet of Things and the development of optical fiber communication are inseparable from the communication engineering. Participation and support. Therefore, we must give full play to the mutual promotion of electronic technology and communication engineering, so as to better serve them for social and economic development.

2. Overview of Electronic Technology and Communication Engineering

2.1 Electronic technique

Electronic technology has appeared for a relatively short time, but in a few decades has been very rapid development, achieved very significant results, greatly promoting the development and progress of social economy. Compared with the developed countries in the West, the development of electronic technology in China started relatively late. In order to rapidly improve the development level of Chinese electronic technology, it is not desirable to completely copy the western development model. Only by formulating electronic technology development strategies that conform to Chinese characteristics according to Chinese actual development situation and specific objective conditions can Chinese electronic technology continue to develop. At the same time, we should attach great importance to the role that electronic technology professionals can play, establish a scientific and perfect training mechanism for electronic technology professionals, and help the development of electronic technology in China by training the scientific research team of electronic technology professionals.

The application of electronic technology is greatly affected by the environment. It is very vulnerable to the influence of natural environment such as temperature, humidity, solar radiation, etc. in the process of production, transportation and use. In order to ensure the normal use of electronic technology, it is necessary to establish an objective condition under which electronic products can operate at maximum power, so as to avoid the influence of objective conditions and unable to play the role of electronic technology to the greatest extent. At present, the biggest trend in the development of electronic technology is miniaturization. Through the use of nanoscale manufacturing technology, the working efficiency of electronic products is continuously improved while the appearance of electronic products is continuously reduced. A large number of electronic products are integrated into electronic terminals used by people in daily life, so that people can realize various electronic technology functions through a very small electronic terminal. The trend of miniaturization of electronic products has also led to the closer connection between electronic products and people's lives and their wider application in society. The use of nano-fabrication technology for electronic products also makes electronic products more accurate and more versatile. Because with the continuous maturity of information technology, people's requirements for electronic products are also constantly improving, so it is necessary to continuously enhance the precision and intelligence of electronic products to meet people's demand for electronic products. For example, in the workshop for the production of electronic products, there is a very strict regulation on the amount of dust in the workshop environment. If the amount of dust in the workshop is too large, the electronic products produced in the workshop will not meet the quality requirements, which is hard to imagine in the production process of ordinary products.

2.2 Communication engineering

Communication engineering is a very important part of electronic engineering. It involves the processing of electronic signals and the normal transmission of electronic information. At present, most of Chinese information technology needs the support of the general engineering to run smoothly. The daily life also has a very close relationship. The smooth development of communication engineering can effectively promote the continuous advancement of Chinese economy and science and technology, and provide important technical support for the development of other industries. Communication projects are usually closely connected with the infrastructure construction in our country, so the areas and locations where communication projects are located are generally scattered. The location of communication projects needs to consider a large number of factors. On the one hand, in densely populated areas, communication capacity must be guaranteed, so a large number of base stations must be built to enable a large number of people and enterprises in the area to use communication technology services at the same time. On the other hand, communication engineering also needs to ensure the coverage of communication technology services, because a large number of rural areas in China are located in areas with poor environment. To ensure the smooth use of communication services by these rural population, communication engineering needs to set up base stations in areas where traffic is very inconvenient and infrastructure is not sound. At the same time, the construction process of the communication project still needs to be affected by many human factors. For example, some residents do not know much about the professional technology of the communication project. They think that the construction of base stations will increase the radiation in the residential area, affect their health, and prevent the communication project from building base stations in the area.

3. Application and Development of Electronic Technology and Communication Engineering

3.1 Application and development of electronic technology

Under the background of deepening social informatization, the application scope of information electronic technology is very wide. For example, it has achieved good results in automobile manufacturing, medicine and construction industries, greatly improving the production efficiency of the industry and promoting the development of the industry. At present, the application of electronic

technology is very closely linked with our daily life. For example, the indispensable logistics industry in daily life is to use electronic technology to monitor the vehicles of logistics transportation in real time, and feed back all relevant information of these vehicles to the information control platform of logistics enterprises in a timely manner, thus enabling different residents to inquire about their express transportation situation at any time. The staff of environmental protection departments are also actively using electronic technology to monitor the environmental pollution data. When the environmental pollution index is higher than the normal standard, they will give timely feedback to the relevant staff of environmental protection departments, so that environmental protection departments can find pollution problems in time and solve them quickly, so as to make the natural environment in which we live safer. Full harmony. In the automobile related industries, electronic technology has made very significant achievements, greatly improving the production efficiency of automobile related industries. In the vehicle inspection, intelligent sensors and microprocessors are used to detect the faults of the vehicle. This intelligent inspection can quickly and accurately find the faults of the vehicle and give corresponding maintenance suggestions, so that the vehicle maintenance personnel can The test results are used to repair the car and effectively eliminate the car's malfunction. Of course, with the further development of electronic technology, the application range of electronic technology will become wider and wider, and we can solve the constantly emerging problems with the help of electronic technology.

3.2 Application and development of communication engineering

Now people's demand and quality requirements for network and communication signals are getting higher and higher. These are all realized by communication technology. In the process of continuously meeting people's needs, communication engineering has also made great progress. It has brought very high quality communication conditions to all walks of life and people's life, making people's life more convenient and promoting the production progress of various industries. The fields in which communication engineering is applied deeply mainly include computer network, professional medical equipment and other fields. In these areas, communication engineering mainly plays the role of media to help these areas to collect and process related information smoothly, while ensuring the smooth transmission of these data. At the same time, communication engineering needs the support of electricity, materials and other objective conditions in the actual construction process. To a certain extent, it also promotes the development of these industries, and promotes the progress of science and technology in related fields in China.

4. Cooperative Development of Electronic Technology and Communication Engineering

4.1 Electronic technology and communication engineering promote each other

Electronic technology and communication engineering have a very obvious mutual promotion role, so in the process of development, we should actively combine electronic technology and communication engineering to achieve the coordinated development of the two. The technology needed for the development of communication engineering needs the continuous development of electronic technology to support it. For example, the information exchange technology is a relatively backward point in the early development of communication engineering, which seriously hinders the progress of communication engineering. The continuous innovation and development of electronic technology in this period helped communication engineering to solve the shortage of information exchange technology. Communication engineering actively used the innovative achievements of electronic technology to realize a wide range of communication information exchange. This phenomenon fully shows that the development of electronic technology plays a very important role in promoting the progress of communication engineering. At the same time, the development and innovation of electronic technology also need the technical progress of communication engineering to support it to proceed smoothly. The progress of communication engineering can transmit a large amount of data and information rapidly and stably in a very large

range, which is a necessary condition for the development of electronic technology. Researchers relying on communication engineering and electronic technology can communicate and verify the data obtained from research without being hindered by distance and time, thus achieving breakthroughs and innovations in electronic technology. If there is no communication engineering support, only a small range of electronic It is difficult for technical professionals to achieve rapid advancement and development of electronic technology. Therefore, electronic technology and communication engineering complement each other, and the technological advancement of either side can greatly promote the progress of the other party.

4.2 Strengthening personnel training

The development of electronic technology and communication engineering requires the corresponding professional talents as the basis to be realized. Only a professional research team can continuously provide new technology and equipment support for electronic technology and communication engineering. At present, high-quality professionals in electronic technology and communication engineering are still very inadequate. On the one hand, it is necessary to strengthen the training of these professionals, and to improve such majors by reforming the corresponding courses in electronic technology and communication engineering in universities. The quality of teaching improves the knowledge and research ability of college students in electronic technology and communication engineering. On the other hand, it is necessary to improve the treatment of professional and technical personnel in electronic technology and communication engineering to attract high-quality professionals to obtain employment. Finally, enterprises related to electronic technology and communication engineering should strengthen exchanges and cooperation with universities to provide sufficient internship positions and learning opportunities for college students of relevant majors, so that college students of these majors can quickly enter the corresponding positions to play a role after graduation.

4.3 The result of the collaborative development of electronic technology and communication engineering

The collaborative development of electronic technology and communication engineering has made remarkable achievements. Both mobile devices in our daily life and some high-tech fields such as aerospace and deep-sea exploration can not be separated from the support of the collaborative development of these two fields. The coordinated development of electronic technology and communication engineering has made great progress in a series of professional disciplines such as circuits and systems, electromagnetic field and microwave technology, signal and information processing in our country. At the same time, a series of communication technologies such as satellite communication, optical fiber communication and mobile communication, which are closely related to our life, as well as corresponding equipment production, have been developed rapidly, greatly improving the overall level of science and technology in our country.

5. Conclusion

In short, electronic technology and communication engineering have a very obvious mutual promotion between them, and their technological progress has also provided necessary objective conditions for the development of science and technology in our country. In the future, they will play a more and more important role, and their development space will be broader. Therefore, we should increase investment in electronic technology and communication engineering, and give full play to their role in promoting the development of science and technology and economic progress.

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