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## THE ROLE OF ENGLISH IN MODERN RADIO ENGINEERING

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"Who does not know a foreign language, he does not know his own one." This thought was expressed by the great Goethe. Indeed, it is difficult not to agree with this statement, because everything in the world is known by comparison. For example, when translating foreign texts, you study your native language, because you compare grammatical constructions, rules, and thus deepen not only into a new language, but also into your native language. You will also learn more about the culture and people who speak the language. And when comparing from the new side, your culture can also open up, because it is very closely connected with the language, you will understand how unique and important each culture is, how important it is and its value in language in particular. But why so much attention is paid to the English language? How important is the study of English in the life of a modern man? Is it really necessary? The value of English in the world is constantly increasing. It is considered to be the world language of communication. The English language allows you to communicate with people fluently when visiting most countries of the world. Thanks to this, it is possible to establish contacts and resolve conflict situations in the world. You can evaluate its role using a very vivid example: English was adopted as an intermediate language at meetings of the European Union, although countries are allowed to use their native language, but due to the lack of qualified interpreters this decision was made. English has also been adopted as a working language in the United Nations. But is English important in science? Of course yes, because the English language provides a great opportunity for unhindered communication among scientists around the world, who contribute to the development of science and new discoveries. Many scientific articles are written in English. However, there are many engineers who speak only one language. So do you need English in engineering? And in particular, what advantages does the knowledge of English in radio engineering specializations give? What is the role of English in radio engineering?

In today's world, more and more employers are demanding knowledge of English from their engineers. But why? And it is because even when working at a domestic enterprise, engineers are faced with the selection of the right equipment, and in order to choose a quality product with all the necessary parameters, it is necessary to consider the equipment not only of produced domestically, but also produced abroad. To do this, you must carefully study the literature, which is often written only in English. Such a specialist can take part in international conferences where he can freely discuss existing problems and keep abreast of the latest innovations and developments. Communication with foreign colleagues certainly contributes to professional growth. That allows the engineer to keep up with the times and in his developments to keep up with the modern world, and in some cases makes it possible to stay ahead.

English for engineers has a number of features, so the translation into your native language can be quite problematic. So some words have several translations, several meanings. Therefore, very often even knowledge of basic English is insufficient, it is necessary to take into account the specifics of the area being studied. Technologies in the modern world are developing at a rapid rate, that is why there is no time to translate most of the new literature. So engineers who do not know English are forced to wait for the

translation at the time when their colleagues are continuing their development and are thus ahead of them. An engineer who knows English has not such problems.

I would like to cite as an example the well-known “datasheet”, for specificity, we turn to the “datasheet” of the radio module NRF24L01 +, where in addition to the diagrams, there will be a long important text in English, which shows: connection sequence to the main board, component composition, specifications and so on. Of course, you can find translation on the Internet, but it’s almost impossible to find an official translation, because processors and other equipment are released every day, and it’s very difficult to compile the necessary information in each language rather than in English. And some amateur translation is sometimes compiled illiterately and with errors, and sometimes a part of the information can be truncated.

The main program in which all modern radio engineering OrCAD work is completely written in English. Any engineer will have to work with it after graduating. OrCAD has received such great popularity due to the fact that it is there that you can assemble the necessary scheme, carry out the necessary modeling profiles, obtain the necessary characteristics, and so on. Without knowledge of English, working in this program will not be possible, because it has not been officially translated into other languages.

The study of English is necessary to begin as early as possible. The future engineer will have enormous advantages. So many Russian universities are currently practicing a double degree program. This gives the student an excellent opportunity to visit another country where he can: meet new interesting people who in the future may become his colleagues, consider the material being studied from a new side. In addition to the above, a student receives two diplomas upon successful completion of all exams, which certainly enhances his qualifications and helps to become a perfect engineer in his field.

Analyzing the English language and radio engineering it can be concluded that they are closely related. It is impossible to imagine in the modern world a qualified engineer without knowledge of a given language.

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