

Improving the professional skills of future music teachers through computer programs

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Received: 12 December 2024; **Accepted:** 14 January 2025; **Published:** 16 February 2025

Abstract: This scientific article analyzes the importance of improving the professional skills of future music teachers using computer programs. The article examines methodological approaches to introducing modern information technologies into the process of music teaching, increasing their effectiveness in pedagogical activities, and developing professional competencies. Through computer programs, teachers' creative thinking, technical skills, and didactic approaches are strengthened, as a result of which their pedagogical skills are further improved.

Keywords: Computer programs, professional skills of music teachers, pedagogical technologies, professional competence, interactive teaching, innovative teaching methods.

Introduction: Music education is recognized as one of the important areas of the education system in modern society. The qualification and professionalism of teachers in this field requires not only knowledge of the art of music and the theory of pedagogy, but also the mastery of modern technologies and methods. The development of computer programs and information technologies creates opportunities for the use of innovative approaches in the educational process. In particular, in improving the professional skills of future music teachers, computer programs play an important role in the effective organization of the educational process and the development of students' creative potential.

Modern music education includes not only musical performance, but also pedagogical, methodological and psychological knowledge. Future music teachers, especially in the application of computer technologies in pedagogical practice, need to improve their professional competencies. In this regard, the impact of computer programs on the educational process, their role in the formation of teachers' didactic, technical and methodological skills is very large. This article analyzes how computer programs can be used to improve the professional skills of music teachers, and considers the problems that arise in this process and

ways to solve them.

Modern digital technologies allow many existing real objects to be converted into an electronic digital form. There can also be reverse operations. For example, a text written on a computer can be printed or the original can be transferred to paper. With the advent of computer technology, great opportunities have opened up in music. Now, using a computer, you can hear the sound of an entire orchestra, install sound files, as in a professional studio, and add any effects to them. Any amateur musician can easily enter and print their own musical compositions. And for this, you need to choose the right and appropriate program. As mentioned above, there is a huge selection of software for working with musical text collections, including such note editors as "Encore", "Finale", "Cubase Score", "Personal Composer", "Musicator", "Guitar-pro", "Akkord" and others. In this regard, it is possible to consider and compare the main software packages offered by developers.

Most users who are familiar with the music typesetting program are familiar with the Finale music editor. Others may be new to the Sibelius music editor. This program is gaining popularity very actively. In addition, there is the Encore music editor, Score for Dos, for the much older DOS operating system, and even the TeX

music editor based on the Linux operating system. In this case, it should not be considered an object of attention. Because the TeX music editor is mainly a program for technical specialists. In the process of performing work, the user works on a black screen, with formulas, uses a special program for previewing, there are no scalable fonts, and there are great difficulties in creating new fonts and special characters.

Music editors are usually similar to a regular text editor from the MS Office suite. One of the most popular music editors is the Sibelius program. The Sibelius program allows you not only to write and print music, but also to listen to them. This music notation editor is used by many musicians, composers, music publishers and music lovers. Because it allows you to realize almost any wish of users involved in musical notation.

History of Sibelius Twin brothers Ben and Jonathan Finn began working on Sibelius in 1987 while they were students and developed the program for six years. It was first released for Acorn Risc computers in 1993, and for Windows and Mac OS in 1998 and 1999, respectively. After graduating from Oxford and Cambridge universities in 1993, the Finn brothers founded their own company to sell Sibelius, which soon became a success. Over the next decade, offices were opened in developed countries such as the USA, Great Britain and Australia, and they had customers in more than 100 countries around the world.

In 2006, Sibelius was acquired by Avid, the developer of the popular Pro Tools and Media Composer programs, and continues to grow with new styles to this day. In fact, Sibelius is the most popular music score editor in the world.

Who is this program for? Sibelius can be used by any musician - from students, teachers to composers, arrangers, performers and leading publishers of the world. The reason why Sibelius covers such a wide audience is due to the simplicity of the interface of the program. This Sibelius score editor program can be used both in primary schools and in the work of highly qualified specialists.

In Sibelius, you can write and notate music of any genre, from classical music to jazz, from rock melodies to avant-garde, from choir voices to symphony orchestras. Among the most famous users of Sibelius are conductor Michael Tilson Thomas, composer Steve Reich, choral composer John Rutter, rock guitarist Andy Summers, jazz musician Jamie Cullum, and the Royal Conservatory of Music in London.

World-renowned publishers Hal Leonard, Music Sales, and Boosey & Hawkes use Sibelius to distribute music in their publications and on the Internet directly to the client's printer.

Sibelius is a Key Buy award winner from Keyboard magazine, a five-time Editors' Choice award winner from Electronic Musician magazine, a two-time 5-star winner from Macworld, and a three-time 10/10 winner from Computer Music magazine.

Scores written in Sibelius are used to create soundtracks for film, television, theater, and other purposes.

Among professional musicians, computer notation programs are used very often, they have already become an indispensable part of everyday life. The Sibelius editor from Avid offers several versions of the software developed for a special set of notes. Musicians of different ages and specialties learn them. Great and unprecedented prospects open up for a musician who has mastered the skills of entering a number of notes on a computer.

Thus, performers update their libraries (it is not always convenient to read poorly written notes). Musicologists receive musical examples for their scientific work. One of the composers said, - "... I can't imagine what it was like before without Sibelius. I first compose my works in my head or perform them on the piano, and everything happens in my favorite notation program on my computer" .

The Sibelius editor is very convenient for learning and working. New features added by developers in the latest versions of the program provide further expansion of its capabilities. This allows you to create professional publications of any complexity, record good demo recordings on CD, as well as combine audio and video for recording music for films.

Therefore, the most convenient and fast way to print any score and parts on paper in high quality, notate any musical melody is to digitize musical notes, and it is advisable to implement this process using computer technologies.

CONCLUSION

The importance of using computer programs in improving the professional skills of future music teachers is increasing. The introduction of computer technologies into the educational process creates the opportunity for teachers to use innovative pedagogical methods and raises their professional competencies to a higher level. Using interactive teaching methods, music programs and other information technologies, teachers achieve creative thinking, analysis, and the development of creative and technical skills. This will help not only to effectively teach students, but also to form in them a respect for the art and culture of music.

In addition, through computer programs, teachers will have the opportunity to consolidate their knowledge,

test didactic approaches and develop their own pedagogical style. However, in this process, there are some problems, such as the lack of technical equipment, the low level of computer literacy of teachers and difficulties in mastering new methods. Therefore, to solve these problems, it is necessary to organize continuous training courses and internships for teachers.

In general, computer programs and information technologies are an effective means of improving the professional skills of future music teachers, improving the quality of education and providing students with modern knowledge, which is of great importance for the future of music education.

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