

BASICS OF CREATING ENGINEERING DRAWINGS USING NANOCAD*Juraev Akmal Razzoqovich**Bukhara State Pedagogical Institute
Dean of "Exact and Natural" Sciences***Key words:** Software, Software, Nanosoft, nanocad, Software tools.**Abstract:** This article provides information about the workspace of the nanocad program. Opinions about the possibilities of using Nanocad programs in the areas of technological education were discussed

NANOCAD is a proprietary basic automated design system for Windows, designed for the development and release of working documentation (drawings), developed by the Russian company OOO Nanosoft Development. Since October 23, 2023, OOO Nanosoft Development has commercially released the nanoCAD platform for Linux (Astra Linux, Alt Linux, RED OC).

Software is a tool designed to perform a specific type of task on a computer. It is understood as a set of software and documentation tools for creating and using a data processing system with computing equipment.

It is this software that has eliminated the term "dry iron" for a computer. Software is a set of all programs used by a computer. In English, this term means "soft" - soft, "ware" - "product".

Nanosoft nanocad and nanocad programs Nanosoft Development Company and Astra Group announced on April 8, 2022 the completion of a series of tests confirming the compatibility of the nanoCAD platform with Astra Linux OS for designing and modeling objects, conducted in the Wine 7.0 environment. This proves that with the help of software it is possible to create and edit design drawings, design various products, engage in 3D modeling, develop digital design models, prepare design documentation, and perform many other tasks.

The subject of the tests is the compatibility and correct operation of the operating systems Astra Linux Common Edition, Astra Linux Special Edition, and the nanoCAD platform.

For the most complete description of the tools and commands for launching the program, there is a user manual. You can also use the shortcut located on the desktop. The program interface consists of the following elements, at least the sections located at the top of the screen and containing all the tools for work, some tools for easy navigation in a huge functional nanocad formed under the menu to launch a specific tool, just on the left. - click on the selected item.

About the toolbars, each of which is designed to perform a specific command when the cursor is positioned on the button icon, a wizard with the name of the command appears to quickly enable and disable the panels. You need to right-click on any icon on any toolbar and in the context menu check the corresponding item on the toolbar or uncheck it. To move the panel installation, click and hold the left mouse button on the dotted line of the installed panel, then move the mouse if the panel is not captured and drag the panel by its title. The command line is designed for entering commands and their parameters from the keyboard, and it also displays tooltips with blue active links for the operation of tools and commands, and displays parameters that the user can change during operation. These are the same options as those shown in the context menu; you can also perform mathematical calculations on the command line.

The command line is designed for entering commands and their parameters from the keyboard, it also displays tips for the operation of tools and commands with blue active links indicating parameters that the user can change during operation. They are the same as the options displayed in the context menu; you can also perform mathematical calculations on the command line. Bookmark sheets Any document contains at least one bookmark. This is the model area where the plan is drawn. In the lower left part of the screen there is an icon indicating the origin of the coordinate system, the final design of the document. Before printing, it is done on pre-prepared sheets, the number of which is independently controlled by the user. Document bookmarks in the program It is very convenient to manage open documents. To select a specific document, just select the bookmark at the top of the model area or select it from the list by clicking on the arrow in the upper right corner.

Select from the list by clicking on the arrow in the upper right corner of the object properties window in the top part of the model area or in this window, the user controls the properties of one or more selected objects. FF and future objects set the property for the object manager. The object manager contains a list of nanocad design objects included in the drawing. Using the object manager, you can search for objects by values that meet the specified criteria, override their editing parameters. Delete and hide objects. And perform other operations.

Status bar The status bar also displays the buttons for controlling modes, drawing with a grid, and displaying in a fuse at the bottom of the screen, along with the numerical coordinates X Y. Where is the cursor relative to the origin. The model recovery program also has navigation buttons, and the mode, full-screen work, and document scale can also be adjusted in the status bar.

In the continuous education system, software tools play an important role in the process of developing students' technical design competence. From the above, it can be concluded that the methodology for using software tools is one of the important issues of the education system.

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