

COMPUTER AIDED DESIGN (CAD) I

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Computer-Aided Design (CAD) I including is the module of VGU Architecture program that consisting tutorials about Data organization, systematics of electronic data processing (EDP) and CAD; Text processing, standard-compliant reports/business letters, formatting spreadsheets, working with simple formulas and calculations; CAD (2-3D): Project structure, drawings, images, and layers. Create and modify lines and geometric shapes; Architectural 2D drawings such as floor plans, sections, and views at scale (using hatching, labeling, and dimensioning); Furnishing, plan to process and plan output. According to Computer-Aided Design & Applications (2012), "Three-dimensional (3D) CAD model comparison is defined here as the process of calculating and representing the differences or similarities between 3D CAD models embodying the geometric definition of mechanical parts". These are helpful sources and ways to finalize and visualize the design idea.

In my separator project, I began with a foundation ground plan outline of the concept on paper and finished the rest on Rhino. The software offers multiple views so that I can explore any perspective at one time or independently, which lets us easily envision the concept. Therefore, the option to hold or change my mind is a lot faster than when I doing a two-dimension sketch on paper. There are many key commands that I use to build the project in Rhino. I started with Rectangle, ExtrudeSrf tool to build up the foundation. For further steps, several commands such as Boolean, Extract, Offset, and so on assisted me to get the nearest visual that I was expecting. It is not easy to get familiar with the dimension in the software. Due to that fact, I worked by calculating the ratio and apply it to the virtual design in Rhino. Although there are several steps, it is easy to export the final design following the tutorials.

Computer-Aided Design (CAD) enables the development, modification, and optimization of the design process. Thanks to Computer-Aided Design (CAD), I can make more accurate representations and modify them easily to improve design quality. The software also takes into account how various materials interact: This is especially relevant as more details are added to drawings later. Creating an environment where I can visually express the idea to enable more value-oriented decisions in design.

The power to visualize the design idea of Computer-Aided Design (CAD) is endless; However, my knowledge of the software is limited since I have worked with the software for roughly a month. It is worth exploring deeper the ability of the software and applies it more effectively in my next projects.

Reference:

1. Computer-Aided Design & Applications (2012)

Retrieved from:

<http://www.cadanda.com/>



