

ANIMATION, INTEGRATION AND PROGRAMMING IN CAD

TUTORIAL PRESENTATION

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AutoCAD is used by over 500,000 professionals in every field that could use a graphic of any type, size, or color. Most of these uses are in traditional fields, but many are showing in places undreamed of just a few years ago.

AutoCAD replaced traditional uses in fields using standard graphic requirements and added a huge number of new capabilities. Mechanical engineering design uses AutoCAD to go from concept to production to disposal with continuous and instantaneous data access both locally and internationally. Architects use AutoCAD to explore many more concept sketches, produce construction drawings and documents much faster, and to even provide a demonstration "walk-through" animation of the proposed project. Highway and bridge development can now combine existing topography, G.I.S. data, and construction standards with AutoCAD to produce construction and legal documents from one data source.

The non traditional uses of AutoCAD are both surprising and welcome. These include using AutoDesk software to produce animated reenactment of crime and accident scenes for court room presentations. Computer based models of patients can provide medical professionals an opportunity to explore and practice prior to operating. Genetic and nuclear researchers can develop three dimensional models in real size of atoms, molecules, and sub-nuclear particles and reactions using AutoCAD. New uses are being found every day.

This tutorial will explore a number of graphic software products and illustrate how each can be used in the academic environment for research, presentation, and publication. The software explored will be AutoCAD, 3-D Studio, Deluxe Paint, Deluxe Animator, and Autoanimator. Emphasis will be placed on the basic graphic development, presentation material development, and data base conversion and integration into desktop publishers and word processors.