An Architect's Personal View of DataCAD®

NAME: James Goodman, AIA

HOME: Capistrano Beach, CA

AGE: 37

HOBBIES: Model Railroading, Youth Sports

PROFESSION: Architect

FIRM: The Lee/Naegle Partnership

TYPICAL PROJECTS: Resort, residential & commercial projects.

GOALS: To be a firm known for our work on unique projects that require a high level of problem solving.

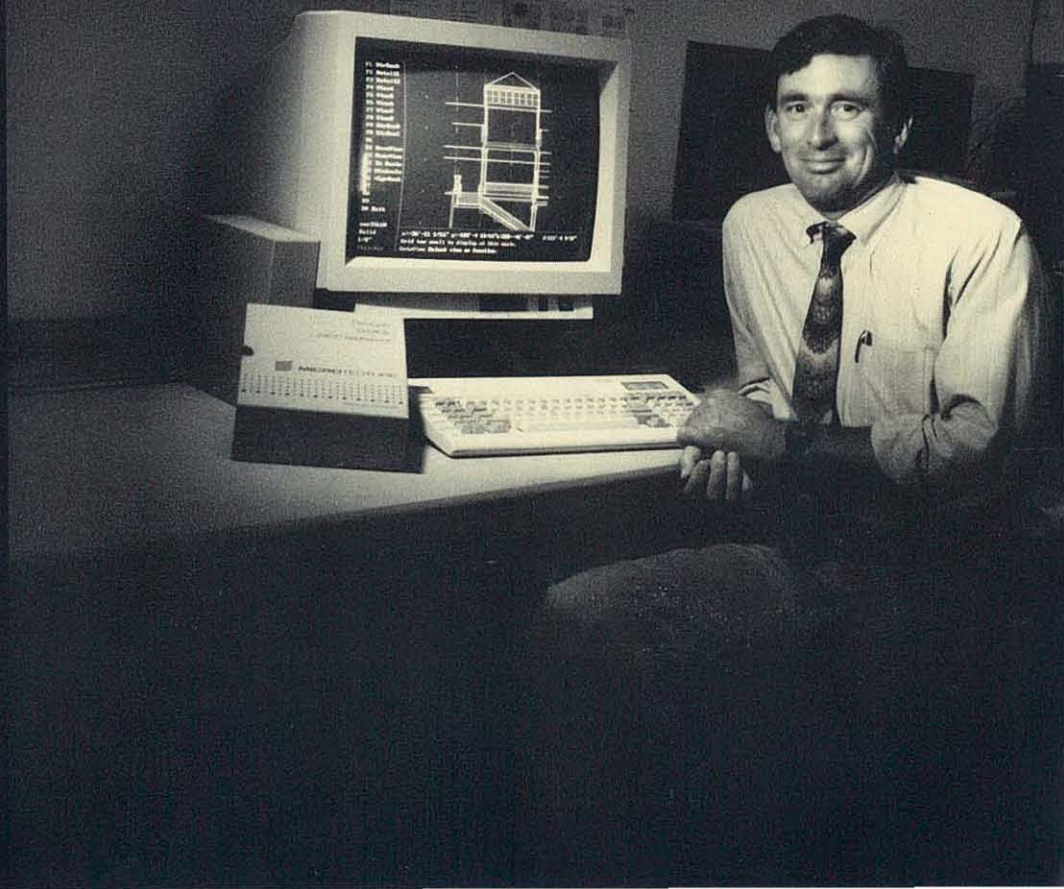
CAD SYSTEM: DataCAD

TRAINING TIME: "I learned it on my own."

BEST DataCAD FEATURES: Integrated 3D, ability to provide faster, and more detailed studies.

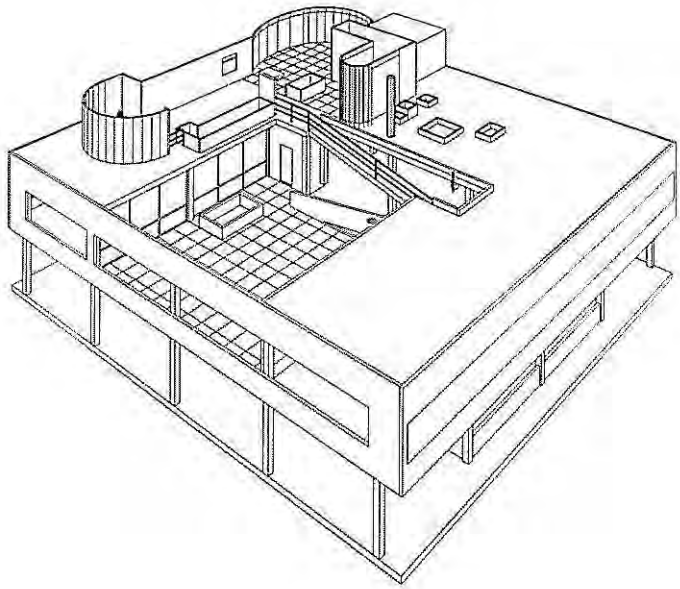
"DataCAD allows us to produce more detailed work in half the time. This gives our clients a better product."

"We attempt things with DataCAD that we never would attempt with a manual drafting system."

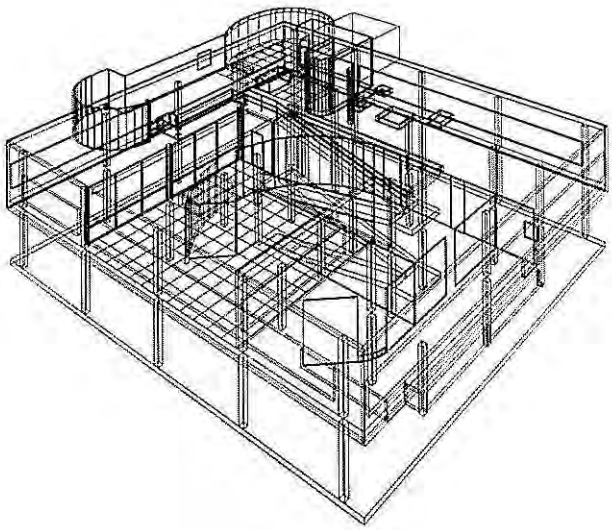


"DataCAD®. .Easy to use, yet the most powerful P

- Automatic & Associative Dimensioning
- Global Editing
- Automatic Door & Window Insertion
- Symbol Databasing
- Hidden Line Removal
- DXF File Transfer
- Automatic Wall Insertion
- 3D Design
- 3D Perspectives
- 3D Editing
- 3D Shapes



Drawing after Hidden Line Removal.



Drawing before Hidden Line Removal.

"The 3-D capability is tightly integrated; the user interface doesn't require a computer degree; and the program provides a wonderful mix of architectural functions."
Mike Heck, *A/E Systems Magazine*

"While no system has every feature you would like to see in an architectural drafting system, DataCAD from Microtecture comes awfully close."
Eric Teicholz, *Computer Graphics World*

C-based CAD system I've seen."- *Page Highfill, AIA, Editor SCIP Newletter*

Top CAD Requirements	DataCAD	Leading Competitors
Ease of Use	**Easy to use** and learn. Simple menu structure allows for speed of operation. "Heads up" design approach let's you concentrate on drawing.	**Difficult to use.** Complicated menu structures. System operation is akward due to necessary AEC add-on programs.
Integrated 2D/3D Design	**Fully integrated** 2D drafting and 3D design database. No time spent loading in add-on programs. View 2D drawings quickly in true 3D perspectives with or without hidden line removal.	**Add-on** 3D programs required by most. Time is spent loading in 2D drawing files. Many views are not in true 3D perspective.
3D Editing	**Draw using 3D** shapes or edit existing 2D drawings while in 3D. Changes will be automatically updated, since drawings, 3D models, and 3D shapes all share the same drawing files.	**Limited editing** capabilities available, most require add-on programs.
Automatic & Associative Dimensioning	**DataCAD automatically dimensions** your drawings along the points you select. When you change or stretch a dimensioned object dimensions are re-calculated automatically.	**Limited dimensioning** is available on most systems. Entry of dimensioning data is not automatic. Associative dimensioning is offered on some.
Automatic Wall Creation	**Automatic cleanup** of "L" and "T" intersections while drawing single or double walls.	**Manual cleanup** of "L" and "T" intersections when drawing walls.
Easy Window & Door Creation	**Automatic insertion** of windows and doors. Parameters such as height and width are defined within the on-screen menu. Once selected, results are instantly displayed.	**Graphics tablet** selection of doors and windows is available. After selection, it takes several seconds to see the results on-screen.
Custom Symbols	**Create custom symbols** or drawing details and store them in template files. Symbol storage is unlimited. Template files display on-screen for easy access.	**Standard symbol** sets are offered. Predefined symbols are selected from a graphics tablet, with room for a few additions.
Bill of Materials	**Track material costs** by assigning values to custom symbols you create. Bill of Materials reports can be customized, then plotted on the drawing.	**Add-on packages** required to handle bill of materials.
Open Architecture	**DataCAD's application language**, DCAL, let's the experienced user customize the DataCAD program. DCAL is a compiled language. This means the programs you write will run without loss of speed or ease of use.	**Macro languages** offered by most. Macros are uncompiled, which makes the programs slower and more difficult to use.

DataCAD® Specifications

Operating system — PC/MS DOS version 3.x
640K bytes of RAM
Math Co-processor
Two serial ports

The following is a partial list of hardware that is currently supported, contact your authorized DataCAD Dealer for a complete list.

Computers
IBM PS/2 Models 50, 60, & 80
IBM AT
Compaq Desk Pro 286
Compaq Desk Pro 386
Hewlett-Packard Vectra
NEC APC IV, Powermate I & II
Sperry IT

Plotters
Benson series 13xx, & 16xx
Calcomp series 1040GT
Hewlett-Packard HP-GL, DraftPro & ColorPro
Houston Instruments DMP series
Numonics 5624
Roland RD-GL

Mice
Kurta Penmouse
Logitech C-7
Microsoft Mouse: bus/serial
Mouse Systems PC Mouse M3
Summagraphics Summa Mouse

Digitizers
Calcomp 2500
GTCO Micro Digi-Pad
Houston Instruments DT-11 & True Grid 8000
Kurta Pad series I, II, & III
Numonics 2200 series
Summagraphics MM-1201 & MM-961

Graphics Adapters
Control Systems
Artist 1, Artist 1 Plus
Artist 2, & Artist 10, Artist 10/16
Hercules
IBM CGA, EGA, & VGA Graphics Adapters
Nth Graphics Nth Engine
Number Nine Pepper SGT
Tektonix PC 4100
Vectrix PEPE
Verticom H & M series
Video 7 Vega Deluxe
VMI Image Manager 640 & 1024

For further information and a demonstration of DataCAD contact the authorized DataCAD Dealer listed below.