

DeepSoft, Inc. Facilities

Office and Computer Hardware:

The office is professionally furnished and equipped with four engineering workstations. All systems are running Windows XP Pro, 2000 Pro, or NT 4, use 32 or 64 bit processors, include 64 Mb's to 4 Gb of RAM, use 19" to 21" monitors, include fast SCSI hard drives and controllers, and are linked with 100 Mbs fast Ethernet. Two film scanners, a flatbed scanner, two printers, and an HP DesignJet 800 PS printer provide graphical I/O. High speed fiber optic internet access is available on all workstations via a network cable router. The facilities also include a 700 volume library of engineering & programming books plus the previous three years issues of twelve different engineering & programming magazines.

MCAE Software: CAD, CAE, FEA

DeepSoft, Inc. has nearly \$50,000 invested in Mechanical Engineering software alone. Noran Nastran, Algor, and Fatigue Wizard are used for 2D and 3D Finite Element Analysis (FEA) for stress, thermal, and dynamic analyses. New product mechanical design is performed with either Autodesk Inventor or SolidWorks 3D solid modelers. AutoCAD and Mechanical Desktop are available for both legacy mechanical projects and new development of custom ObjectARX C++ CAD tools. Geometry for other CAD, CAE, MCAD, FEA, or EDA tools can be imported or exported via neutral geometry files such as DXF, IGES, STEP, SAT, STL, & IDF. 3D geometry models of PCB's can be imported to the solid modelers or FEA tools via the IDF format. The primary CAE system has a SpaceBall 3D controller for efficient 3D solid model and FEA model manipulation.

EDA Software:

ProtelDXP provides end to end support for electronic schematic capture, PCB design and autorouting, design rule check, and MCAD interface for custom single board computer design via the IDF interface.

Mapping Software:

Autodesk MAP, Maptech Terrain Navigator, and TOPO! provide custom mapping capabilities including access to USGS 7.5' topographic map quads for the entire United States.

C & C++ Programming:

Microsoft Visual C/C++, Borland C/C++, Borland C++ Builder, Metaware C, Archimedes C, Linux C/C++, plus a wide variety of programming tools.

Technical Publications, Graphics Arts, & Image Processing:

Corel Ventura Publisher, Corel Draw, Adobe PhotoShop, Adobe Acrobat Distiller, and all of the previously mentioned MCAE & EDA tools can all drive the HP DesignJet 800 PS Postscript printer which supports paper 42" wide in 150' rolls by 2400 dpi at 16.7 million colors. The DesignJet 800 printer supports CAD drawings, 3D solid model renderings, FEA models and results, full size map production, large image photographic output, and large format graphic arts posters which can contain any or all of these elements. The two film scanners provide 5400 dpi and 3600 dpi capture of 35mm film and slides which create large format, high resolution image files. ColorVision's Spyder2 colorimeter and Spyder2PRO software are used for precise PANTONE ICC color correction profiles for CRT monitor color calibration. ColorSavvy's ColorMouse is used to create custom ICC color profiles for specific papers on the HP DesignJet 800 printer.

Business Applications:

Microsoft Office, FrontPage, QuickBooks, and many other utilities