

REALIZE YOUR MOST INSPIRED VISIONS



Vectorworks® Fundamentals 2013  
EVOLVE WITH VECTORWORKS FUNDAMENTALS



# VECTORWORKS FUNDAMENTALS 2013

## FLEXIBLE

Enjoy the Freedom to Design the Way You Want

## VERSATILE

Create, Model, and Present with One Application

## INTUITIVE

Work the Way You Think

## SMART

Invest in Yourself

As your process evolves, the tools you use to realize your creative visions need to evolve, as well. We understand this, and we've worked throughout the past year to adapt the Vectorworks family of design solutions to your needs.

Evolve.

Increase your efficiency. Boost your productivity. Go where you want to go. We know your design process is evolving. With new technology in the Vectorworks Fundamentals 2013 software, you can create whatever you dream up—with even greater efficiency and increased productivity. Our flexible, intuitive, and smart features continue to give Vectorworks Fundamentals software the edge in drawing, 3D modeling, integrated rendering, and high-quality presentations. You get better collaboration, easy usability, and efficient features. Streamline your workflows...improve your efficiency...evolve with Vectorworks 2013.

## FLEXIBLE: ENJOY THE FREEDOM TO DESIGN THE WAY YOU WANT

With Vectorworks Fundamentals software, you're not limited to a prescribed workflow, so you have the freedom to design in your own way. Incorporate your existing approach to design to make the best use of the skills you already have in-house. Collaborate seamlessly with co-workers and colleagues who use other software applications. Here are some of the compelling reasons to purchase or upgrade:

### Free-form Modeling

With our intuitive interface, you can design from any 2D or 3D view using modes in drawing and modeling tools that automatically infer working planes as you move your cursor. The superior quality of our software allows you to manipulate your drawings and models with ease. More accurate object information and better snapping make drawing and modeling easy. The SmartCursor™ helps by showing hints, like the angle from the previous segment, as you draw. Plus, an advanced suite of solids and NURBS surface tools lets you create any shape and easily explore organic geometry. Push, pull, blend, twist, sculpt, deform, or punch holes. Anything is possible with Vectorworks Fundamentals 2013 software.

### Efficient Workgroup Capabilities

Break up complex projects. Whether you're a sole practitioner collaborating with other professionals or a large firm dividing work among different members of the team, workgroup referencing provides a flexible way to split even the most complicated project into manageable pieces.

### Interoperability

Get on the cutting edge of collaborative digital practice. Exchange 3D NURBS models with Rhinoceros® 3D. Import and export AutoCAD® 2012 (and earlier) files or exchange 2D data with DWF import and export.

See it in 3D. Send models to CAD/CAM machines, CNC routers, and other 3D printers. The Vectorworks Fundamentals package supports a number of standard 3D file formats, including Parasolid® X\_T, IGES, SAT, or STL.

### Endless Digital Images

Make your work even more compelling and easier to communicate with digital imagery. Import scans, digital photos, or web images. Import or export a wide array of image files, including Illustrator® EPS and native Photoshop® PSD files. Also, export your design for inclusion in your firm's marketing materials or website.

### Completely Customizable Programming

Automate routine tasks or create full-blown add-on applications with our Pascal-based scripting language, VectorScript™. It's simple enough for a beginner, yet powerful enough for the most experienced CAD programmer.



Courtesy of Design & Function, Raimondo Brenni, Le Landeron



Courtesy of punto design, [www.punto-design.com](http://www.punto-design.com)

## VERSATILE: CREATE, MODEL, AND PRESENT WITH ONE APPLICATION

Move easily between tasks. From design concepts to documentation and every phase in between, the Vectorworks Fundamentals program marries precision drafting and flexible modeling with state-of-the-art technology. Create, model, and present easily and precisely with one application. With Vectorworks Fundamentals software, you can do it all.

The program boasts a comprehensive set of design tools to support your entire practice. You have complete functionality for:

### Powerful Conceptualization

Find your inspiration and start drawing. Or, if you like, import hand sketches, pictures of the site, and even documents or models from other applications. Invoke ideas in 2D, and explore them in 3D with free-form models.

### Superior 2D Documentation

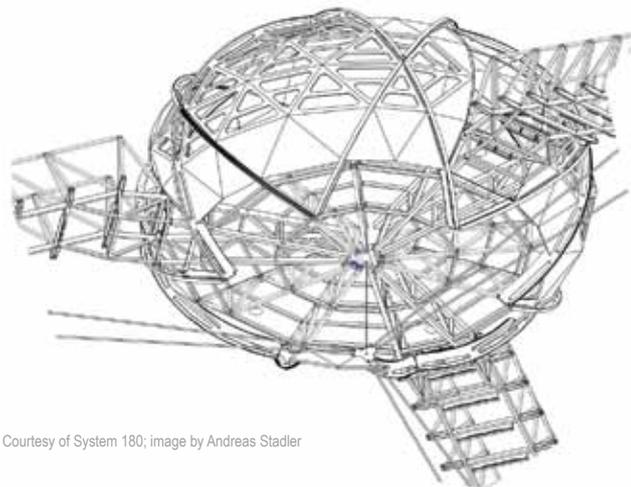
Make drawing fast and fun, no matter how complicated the design. Our streamlined drafting environment includes a suite of drawing and editing tools that make quick work of any type of project. Explore parametric constraints that maintain relationships between 2D objects. Use a full spectrum of dimensioning tools that support common standards. Take advantage of text and notation capabilities that make your drawings even more powerful. For your finishing touches, stylize the text with a choice of fonts and sizes, check your spelling, and extrude text into 3D.

### Powerful Presentations

Define and communicate your signature look with our advanced, high-end technology that's famous for helping our users achieve beautiful, graphically rich presentations. Tap into our large libraries of entourage and unlimited palettes of colors. Your style is not limited by "cookie-cutter" looks. Instead, add gradients, tile and image fills, stipples, and hatching. Easily import digital images and graphics. Use our exclusive sketch rendering technology to change hard-lined drawings into soft, hand-sketched illustrations. Multiple page layout options make it simple to arrange presentation boards.

### Renderworks

We've teamed with the award-winning CINEMA 4D render engine to provide rendering capabilities that are faster and easier than stand-alone rendering applications. Renderworks® is fully integrated into Vectorworks software, so it lets you seamlessly visualize your work throughout the design process, and produce clear and accurate renderings. With the click of a button, rendered viewports will update as your design evolves.



Courtesy of System 180; image by Andreas Stadler



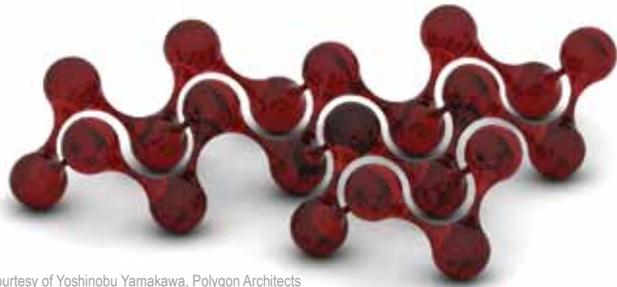
## INTUITIVE: WORK THE WAY YOU THINK

### Easy-to-use Interface and Drafting Tools

Do what you like to do best—design. You won't waste time getting up to speed because the Vectorworks Fundamentals software's simple, customizable interface and what-you-see-is-what-you-get display make it easier to learn and use than standard CAD applications. No matter what you're switching from, the Vectorworks Fundamentals interface will be familiar. Vectorworks software's SmartCursor technology replaces manual drafting tools, so even inexperienced CAD users can make the switch easily.

### Tailored for Your Success

Work in tandem with the application. The Vectorworks Fundamentals program is designed to work the way you think. In addition to designing with lines, arcs, and circles, you can design with intelligent objects, surfaces, and solids. The objects are easy to edit and automatically display in both 2D and 3D views. With our Pascal-based scripting language, VectorScript, you can program everything from simple scripts that automate routine tasks to full-blown commercial applications.



Courtesy of Yoshinobu Yamakawa, Polygon Architects



Courtesy of Tim Connors

## SMART: INVEST IN YOURSELF

Affordable, customer-focused, and proven as the tool of choice for 450,000 designers worldwide—Vectorworks Fundamentals software is a smart investment in you.

### Affordable

You won't find another professional design application that includes so much for such a reasonable price. In one package, you get state-of-the-art tools and technology and the ability to work from concept through completion—what a great value. You also get free service updates, technical support, and affordable training options. Plus, become a member of our Vectorworks Service Select program, and you'll receive free software upgrades, additional learning resources, preferred support status, access to Vectorworks Cloud Services, and predictability for your budget. Service Select is the best way to stay current with your software and get the best value.

### Customer-focused

Relax. We're here for you every step of the way. We listen and learn from your input—that's how Vectorworks Fundamentals software evolves. This means your relationship with us doesn't end when you install the software. Instead, we provide many channels for you to get the information you need. If you'd like training, take advantage of our multiple offerings: onsite, online, or in the classroom. If a technical issue stumps you, contact our technical support team for help. You can also tap into our Vectorworks community of enthusiastic users worldwide, as well as user groups on the local level. Email listservs provide additional assistance around the clock, or you can use our service directory and job board to find help.

*"There are many fine and talented folks who generously share their wit and wisdom with all. The online community is populated with various levels of Nemetschek Vectorworks employees (support personnel all the way to VPs) who chime in quite regularly."* – Patrick J. Immel

Vectorworks users often find themselves in internet-based dialogues with our engineers and managers. We take pride in cultivating lasting relationships with our users, and we translate their feedback into positive product developments. With your input, we can continue to develop software that exceeds your expectations. After all, your success is our success.

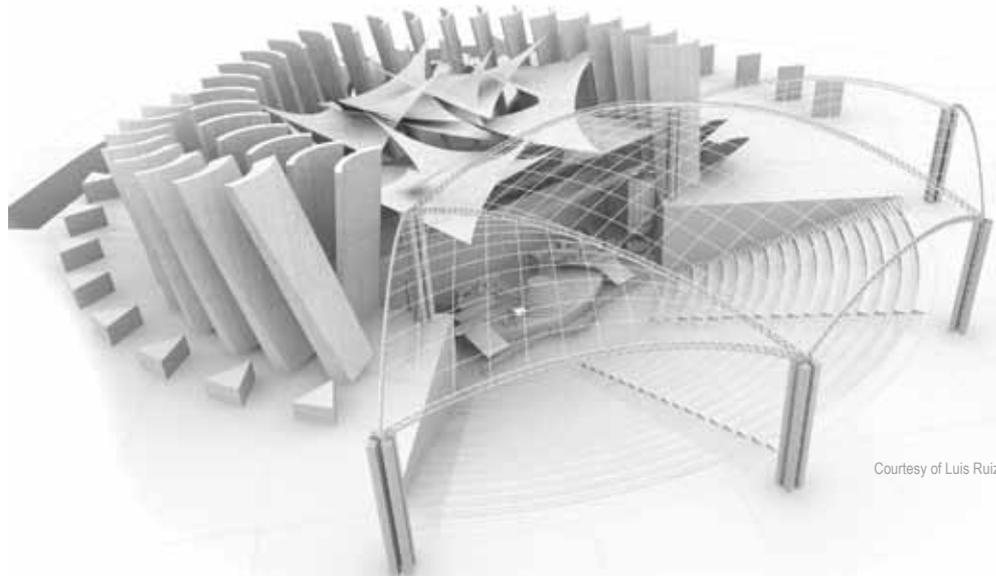
### A Tradition of Excellence

The company was founded more than 27 years ago, and the Vectorworks product line now serves more than 450,000 professional designers worldwide. We listen to our customers and use their feedback to create products that continually exceed their expectations, delivering superior design flexibility and world-class graphics.

The Vectorworks product line is the best-selling, cross-platform professional CAD software and the preferred application for world-renowned and award-winning professionals who move the design world forward every day.

Vectorworks Fundamentals software is produced by Nemetschek Vectorworks, Inc., a wholly owned subsidiary of the Nemetschek Group, a leading global software provider for the architecture, engineering, and construction market (AEC). Nemetschek Vectorworks software solutions are used by design professionals in 85 countries and translated into 10 languages.

With Vectorworks Fundamentals 2013, the tradition continues.



Courtesy of Luis Ruiz

Nemetschek Vectorworks, Inc.  
7150 Riverwood Drive, Columbia, MD 21046-1295 USA  
www.vectorworks.net  
T 410-290-5114 | F 410-290-8050

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## System Recommendations

Mac OS X 10.6.8 or later  
QuickTime  
Intel Core 2, 2.0GHz or better  
DVD-ROM drive (dual layer)

Windows XP SP 3  
Windows Vista SP 2  
Windows 7 SP 1  
QuickTime 7.7.0 to 7.7.2 (higher versions not recommended)  
Pentium 2GHz or better  
DVD-ROM drive (dual layer)

## RAM\*

1GB minimum  
4GB highly recommended  
8GB recommended for large files and complex renderings

## Graphics

1024x768 minimum  
1280x800 recommended  
512MB VRAM minimum, 1GB+ VRAM recommended for high-quality rendering

\*Vectorworks 2012 and Vectorworks 2013 contained improvements that placed significantly higher demand on the graphics hardware. The performance and quality of the graphics provided by Accelerated Navigation and Improved OpenGL Shadows depend directly on the speed and memory of the graphics card. These new features have the potential to provide a very fast and fluid experience when used on capable hardware, and a noticeably slower experience when used on older or incompatible hardware. **In general, the more powerful your video card is, the better your Vectorworks experience will be.**

For the latest information on our video card recommendations for Vectorworks 2013, see the following Knowledgebase article: <http://kbase.vectorworks.net/questions/714>.

See [www.vectorworks.net/sysreq/](http://www.vectorworks.net/sysreq/) for updated information.

