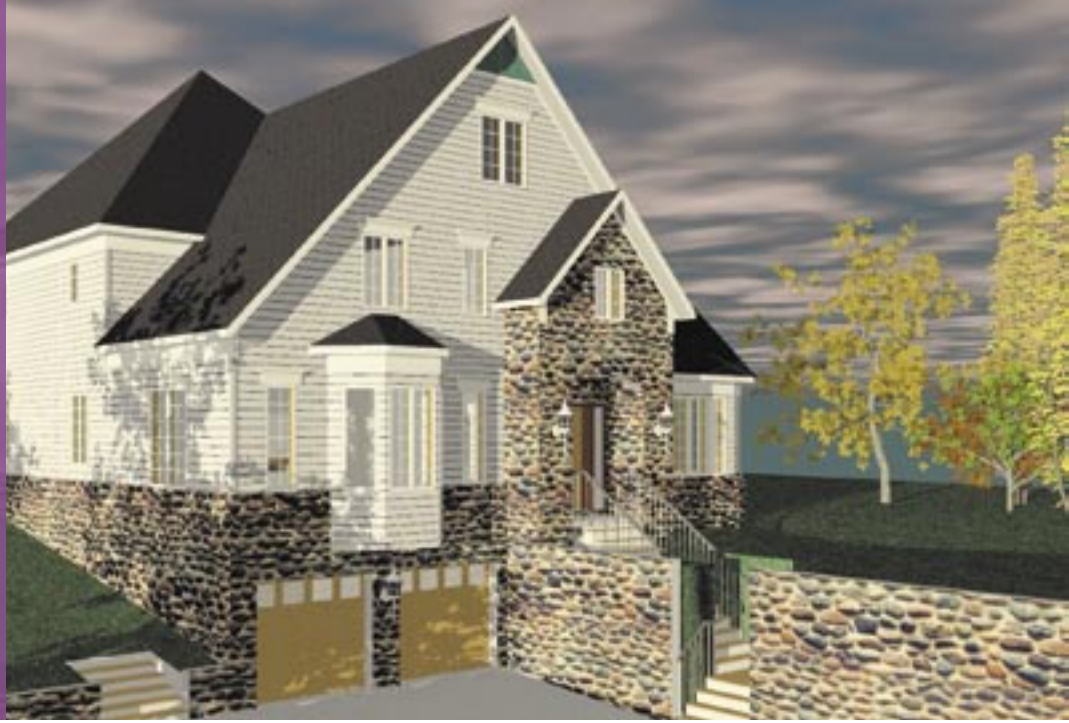


Mangan Group Architects

Customer Success Story

Autodesk® Revit® Building



"Revit Building has helped us increase production with no increase in staff."

John Mangan
President
Mangan Group Architects

Small firm, large gains.

With Autodesk® Revit® Building, Mangan Group Architects boosts productivity by 20 percent with no increase in staff, and projects 30 percent growth in next five years.

The Firm

Mangan Group Architects is an award-winning architectural firm in the Washington, D.C., metro area. Founded in 1995, the firm provides cost-effective and timely solutions for three principal markets: custom homes, production-style single-family units, and high-end remodels. "Our architects are part of a project team whose primary focus is to bring the project in on time and under budget," says John Mangan, President of Mangan Group Architects. Central to their efforts is the optimal use of technology. Using Autodesk Revit Building software, the firm's designers have been able to complete projects faster and more accurately, and with much deeper insight into the design process. Since beginning to standardize on Revit Building in late 2003, the firm has already taken more than 25 projects from the initial design stages through to construction documents. "We've been very happy with the results," says Mangan.

Gaining the Edge

With only nine employees, Mangan Group Architects is a small firm. Yet with the right tools and training, small firms can compete head to head with much larger firms. "Any software solution we chose," says Mangan, "had to enhance our productivity and make us competitive with larger firms. That was first on my mind." The ideal software would also be easy to learn so that designers could get started right away.

Three Challenging Markets

And because the firm's designers work on three principal project types—custom homes, production housing, and high-end remodels—Mangan wanted a solution that could easily address the unique requirements of each market.

Autodesk®

Mangan Group Architects

Customer Success Story



Autodesk Revit Building helps Mangan Group Architects stand out from the competition by enabling the firm's designers to finish complex architectural projects faster and with greater accuracy. Using Revit Building, Mangan designers were able to

- Increase productivity by 20 percent with no increase in staff
- Make important design decisions earlier and with greater confidence
- Compete head to head with larger architectural firms
- Improve customer relations with visualization capabilities

The Solution

Autodesk Revit Building revolutionized the way the firm works, says Mangan. "The only things in AutoCAD® right now are some carryover house plans for production builders. Everything else—all the custom work, all of the renovation work—is in Revit Building now." Easy-to-use Revit Building helped the firm

- Communicate important design concepts to builders and clients
- Make smarter decisions in a timely manner
- Solve complex design problems with ease

Avoid Costly Rework

In their work on a four-plex condominium, Mangan designers used Autodesk Revit Building to track the many design options that builders regularly demand, such as alternative bedroom and bathroom layouts. "I was able to show them what they had, what worked, and what didn't—even when they thought it did," says Doug Williams, an Intern Architect at the firm. The builders better understood the repercussions of their design decisions and could make them faster and with greater confidence. As a result they avoided time-consuming rework later in the project.

Save Valuable Time

The designers at Mangan Group Architects used Autodesk Revit Building to help one builder increase the accuracy of her bids during the permit process for a major renovation. "Once we got to the permit stage, I was able to provide her with specific project information about windows, doors, roof areas, floor areas, wall areas, and concrete volumes," says Nathanael Renfro, Project Designer. "She was able to start bidding early and get her numbers in line." By the time she received the permit, she was ready to begin building, with no time lost.

Solve Complex Design Challenges

Recently, a couple approached the firm with a rendering of an 8,000-square-foot home that had an extremely complex roof system. Initially, the designers used AutoCAD software to determine how the many peaks and valleys interacted, as well as how they affected the interior of the house. "There were a lot of issues with the roof," says Eric Egenolf, Project Designer. "It was very hard to really understand its complexity. We were able to generate enough 3D views and use the roofing tool to get to the point where everything was working out. All the roof pitches were doing what we wanted them to do and we had a good understanding of what the interior space looked like."

The Result

Mangan Group Architects projects 30 percent growth over the next five-year cycle. "I've got some innovative people and a good tool in Autodesk Revit Building," says Mangan. "Revit Building has helped us increase production with no increase in staff."

To learn more about Autodesk Revit Building, visit www.autodesk.com/revitbuilding.