



"It's crucial that our customers have top-quality 3D rendering of their device designs, and the ability to interactively modify and mesh their 3D solid models. By building our new Preprocessor on the HOOPS 3D Application Framework and the 3D ACIS Modeler, we have been able to efficiently create a state-of-the-art product that will enable our customers to produce more accurate analyses and save considerable engineering time."

Stephen Breit, Vice President of Software Product

Business Profile

Product Using HOOPS
CoventorWare

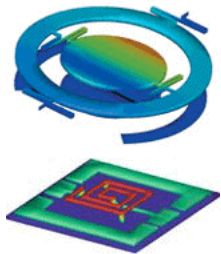
More Info
www.coventor.com

Industry
MEMS CAD/CAE

TS3D Products
HOOPS/3dAF

Company Brief

Coventor has the largest installed base of MEMS (micro-electrical-mechanical systems) design software in the world, including all top 10 MEMS manufacturers. The company provides an integrated suite of electromechanical software solutions for MEMS and microfluidics - all the way from concept and analysis through to volume manufacturing.



The Challenge

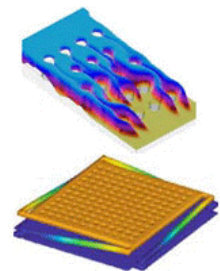
When Coventor set out to develop their CoventorWare MEMS CAD solution, they sought to create a professional-grade front end to complement their in-depth MEMS knowledge and advanced solver technologies. However, Coventor's development resources were limited and their expertise was generally focused on MEMS design and analysis, not the complexities of high-performance 3D graphics. For these reasons, they were looking for a high-level, reliable toolkit, which could also be used alongside the ACIS modeling kernel and the Java-Swing UI development environment.

The Solution

The Coventor R&D team evaluated HOOPS/3dAF alongside two other options - Java3D and a "do-it-ourselves" approach using OpenGL. It was quickly determined that the OpenGL approach would require far more expertise, resources and time than Coventor had available. The company also determined that HOOPS/3dAF offered a far more high-performance, stable, portable and functionally complete graphics component than was available with Java3D. Finally, Coventor had recently chosen the ACIS kernel modeler from Spatial, so the tight integration between these complementary tools would further ease Coventor's development effort.

The Results

- HOOPS/3dAF enabled Coventor to deliver a visually rich application that would have otherwise been beyond the scope of their development resources.
- TS3D has proven to be a key technology partner, helping Coventor develop an interface between HOOPS/3dAF and their Java-Swing based GUI tool.
- Coventor continues to leverage newly developed capabilities of HOOPS/3dAF to keep CoventorWare's graphics at the forefront of the emerging MEMS software market.



About Tech Soft 3D

HOOPS toolkits from Tech Soft 3D (TS3D) dramatically simplify the design, development and maintenance of high-performance, interactive 2D/3D engineering software. HOOPS components are part of over 175 commercial software applications that run on millions desktops worldwide. Headquartered in Berkeley, CA, TS3D is on the web at <http://www.techsoft3d.com>. For more information, contact Ron Fritz, Managing Partner: 510.883.2180 x 201 or ron@techsoft3d.com.