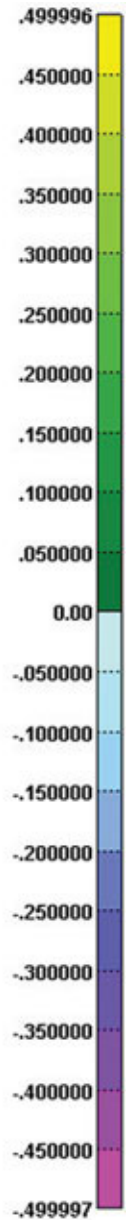# InnovMetric Software Inc.

The world's largest automotive and aerospace companies use InnovMetric's 3D point cloud processing software in their daily point cloud digitizing, dimensional analysis, comparison to CAD, and reverse-engineering tasks.

InnovMETRIC
Software

Market:
Point Cloud Processing

Product:
3D InterOp Translators

CHALLENGES
InnovMetric needed an expedient way to provide their automotive and aerospace customers with the industry's best CAD translators in their PolyWorks® inspection and modeling software.

Solutions:
Spatial InterOp software selected for its high-end CAD translators, particularly its ability to fl awlessly exchange CATIA v4 and v5 data.

Results:
- **Can integrate new translators in less than an hour because of the Connect API**
- **Frequent releases and service packs enable InnovMetric to maintain competitive edge**
- **Spatial's business model enables InnovMetric to be true partner in feature enhancements most requested by their customers**

COMPANY

Founded in 1994, InnovMetric Software Inc. pioneered the market for software that transforms high-density 3D digitizers into true metrology instruments. A privately owned company, InnovMetric's PolyWorks® inspection and modeling solutions are at work daily in more than 30 countries, providing users such as BMW, Boeing, Daimler-Chrysler, Ford, Porsche and Toyota with the most complete, accurate, and robust 3D point cloud processing software solution on the market.

CHALLENGE

InnovMetric wanted to off er the same CAD import capabilities in its products that are available from large software companies. To be competitive in the automotive and aerospace industries it's imperative for the company to off er nearly 100% fl awless import of CATIA v5. It wouldn't be cost-eff ective for InnovMetric to try to develop a data exchange capability itself because commercially available products already exist to solve this problem. So it sought out a reasonably priced, eff ective third party tool to meet its high demands and expectations.

SOLUTION

In 2002, InnovMetric found the answer in 3D InterOp translator technology from Spatial and has been integrating it into PolyWorks ever since. Spatial's InterOp components allow it to off er high-end CAD import capabilities and increased its penetration in large automotive and aerospace accounts. "Naturally we turned to Spatial," said InnovMetric President Marc Soucy. Spatial's InterOp translators provide InnovMetric access to stable and actively-developed high-end CAD translators, which the company is highly comfortable passing along to its customers. InnovMetric's customers expect to have as fl awless import as possible without any translation errors and full content of the files available.

Spatial's 3D InterOp translators enable InnovMetric's customers to easily integrate advanced 3D data interoperability capabilities into applications that use 3D information, including CAD/CAM/CAE applications; data management systems, such as PDM/PLM collaboration systems; and visualization applications.
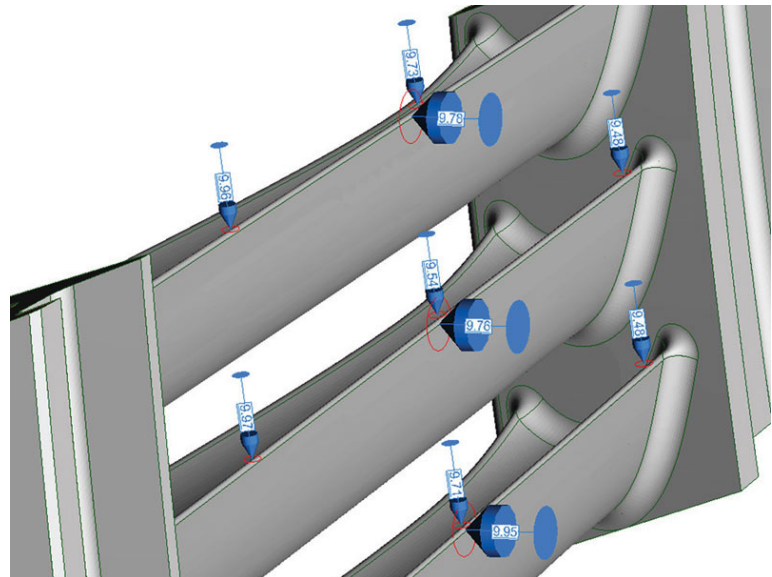
"Spatial's CAD translation technology has reached a great level of maturity – it's a very, very good product," notes Soucy. After the initial integration of the InterOp library into its PolyWorks application, InnovMetric has reached a point where adding a translator now takes less than an hour because of the Connect API.

> **"We are excited to be working with Spatial. We feel its InterOp translators have been a great asset to our product development and we look forward to using its translators to improve the future of PolyWorks."**
>
> *-- Marc Soucy, President InnovMetric*

RESULTS

InnovMetric purchased Spatial InterOp so that it wouldn't be faced with the resource, economic, and time-to-market challenges that would have come with developing the technology itself. "We've been working with Spatial on the development of the library since the beginning and are pleased that our recommendations and requests are continually being factored in to new releases and service packs." Spatial's business model is fl exible and accommodating to a company such as InnovMetric that may be small in size but needs to cater to some of the world's largest companies.

Spatial enables InnovMetric to be very competitive in the CAD translator market. In its largest accounts, most of the sales come with either a UG or CATIA translator; sometimes customers buy both CATIA v4 and v5. The company fi nds its biggest advantage in the fact that Spatial's CATIA v5 - used by almost all automotive companies - stays in the native CATIA libraries, as opposed to a reverse engineering translator. Plus, because it's such a stable technology, customers can expect nearly 100% fl awless import without translation errors, according to Soucy.

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