

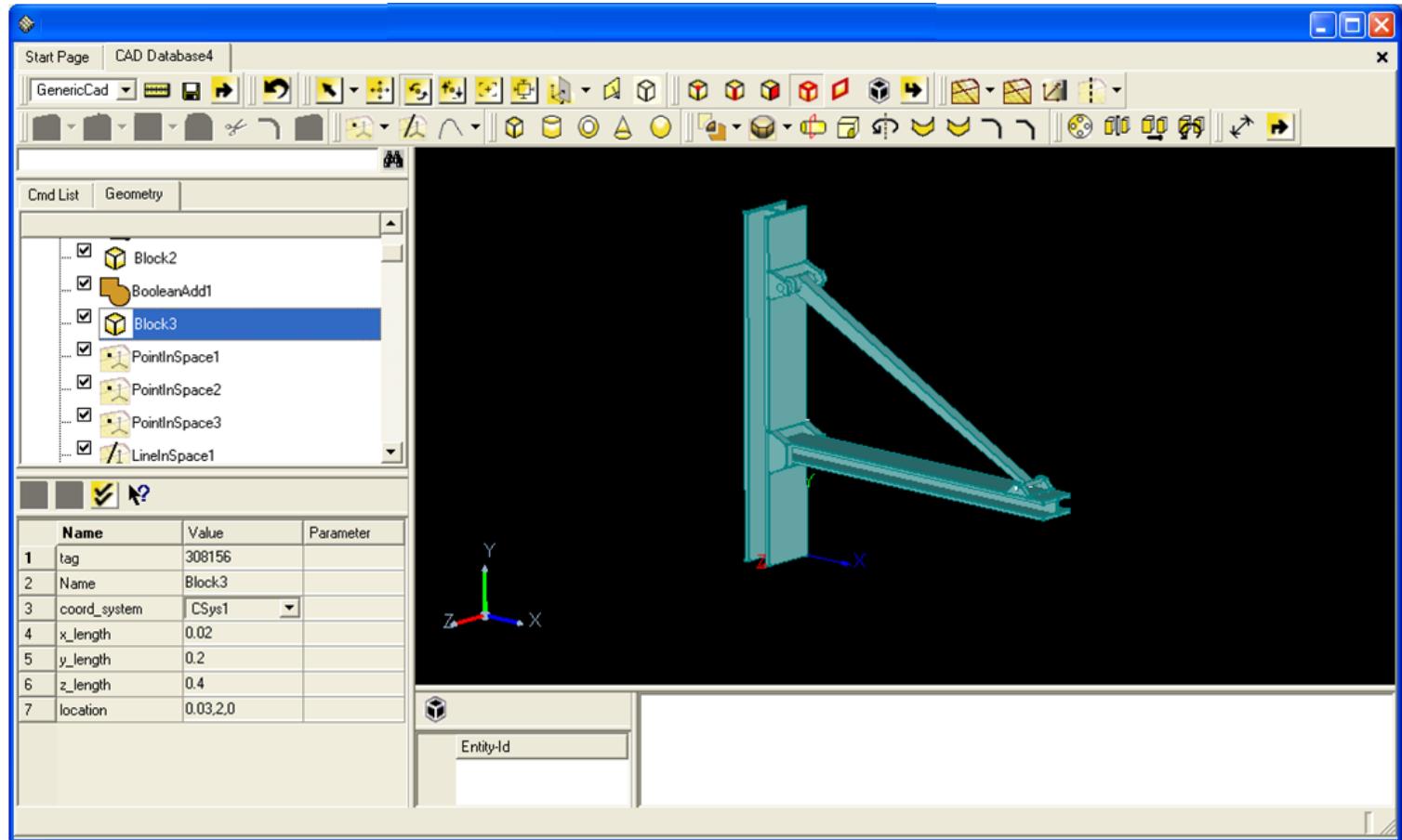
## Software Development: Parametric CAD Modeling System

### The Customer

The customer was SimLab Corporation, California, USA (now part of Altair Engineering), having strong expertise in automotive and aerospace FEA.

### Background

Customer wanted to develop a custom CAD modelling system which will support parametric geometry creation, geometry clean-up and geometry import. It was time critical for their business.



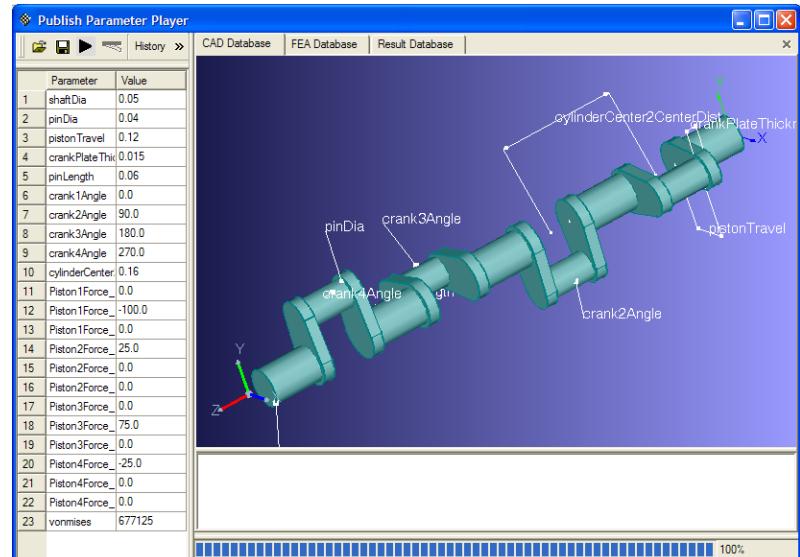
### Key Features

- ✚ Simple and quick creation of parametric geometry based on PARASOLID kernel
- ✚ Sketch based 2D and 3D geometry creation
- ✚ IGES import
- ✚ Geometry cleanup tool like delete face, delete loop, fill hole/gap

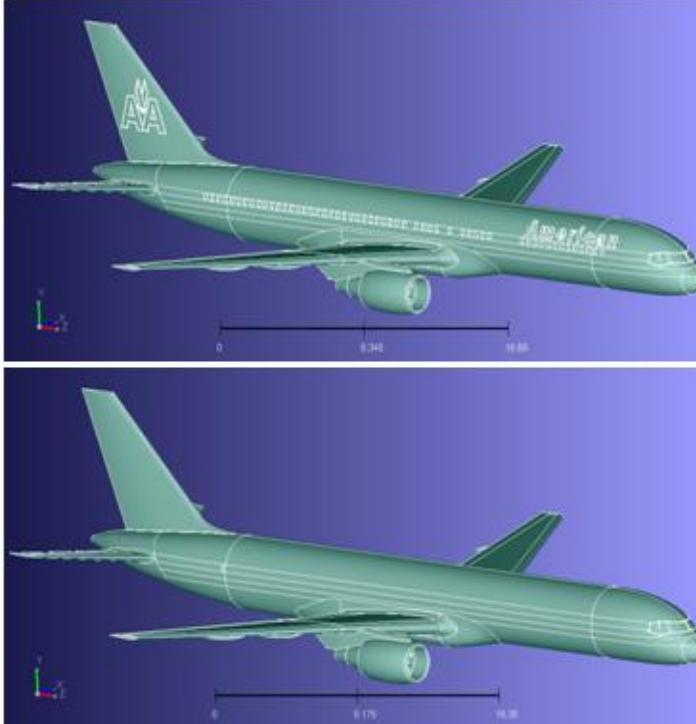
- ✚ Command journaling so as to enable command replay with changed parameters (parametric player tool)
- ✚ OpenGL based visualization for 3D geometry
- ✚ Platform independent user interface
- ✚ Integration with customer's proprietary CAE software

## Benefits to Customer

- ✚ Technical lead with vast experience on Application Architecture, Multi-platform User Interface
- ✚ Team with relevant experience in CAD and PARASOLID kernel in specific
- ✚ Direct cost saving: Customer could achieve same functionality without having to invest into a full scale CAD software. This resulted in huge cost saving in addition to reduced costs due to off-shoring
- ✚ Critical business need fulfilled: Module with required functionality and quality was delivered in a very short time span



**Parametric Player**



**Cleanup of Engraved Text**

Aashai has unique combination of CAD/CAE domain expertise and software development maturity. We were required to interact only at high-level requirements while the experienced Aashai team took care of all the software development details, allowing us to focus on our business and customers.

SimLab is happy to partner with Aashai to develop applications for various engineering domains.

**Shan Nageswaran**  
CEO, SimLab Corporation