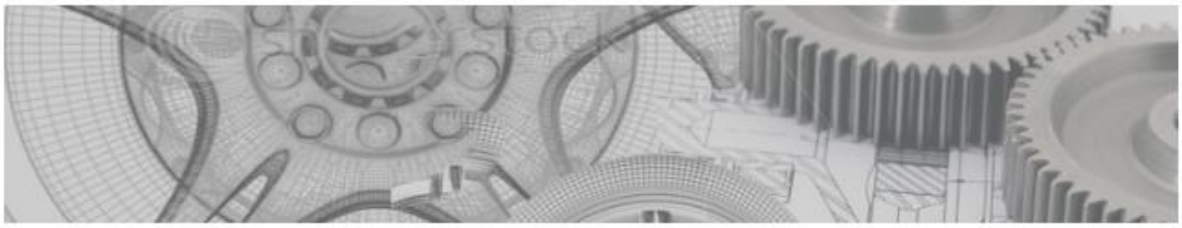
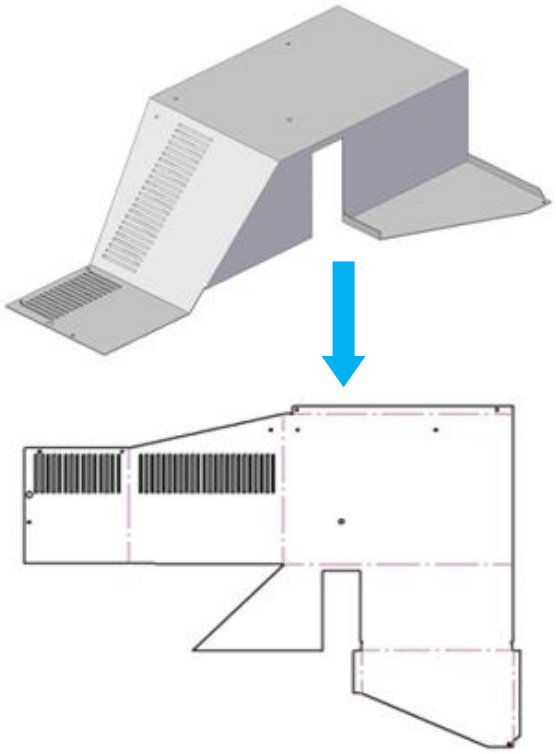


Aashai Technologies

Software Development: Advanced Sheet Metal Design

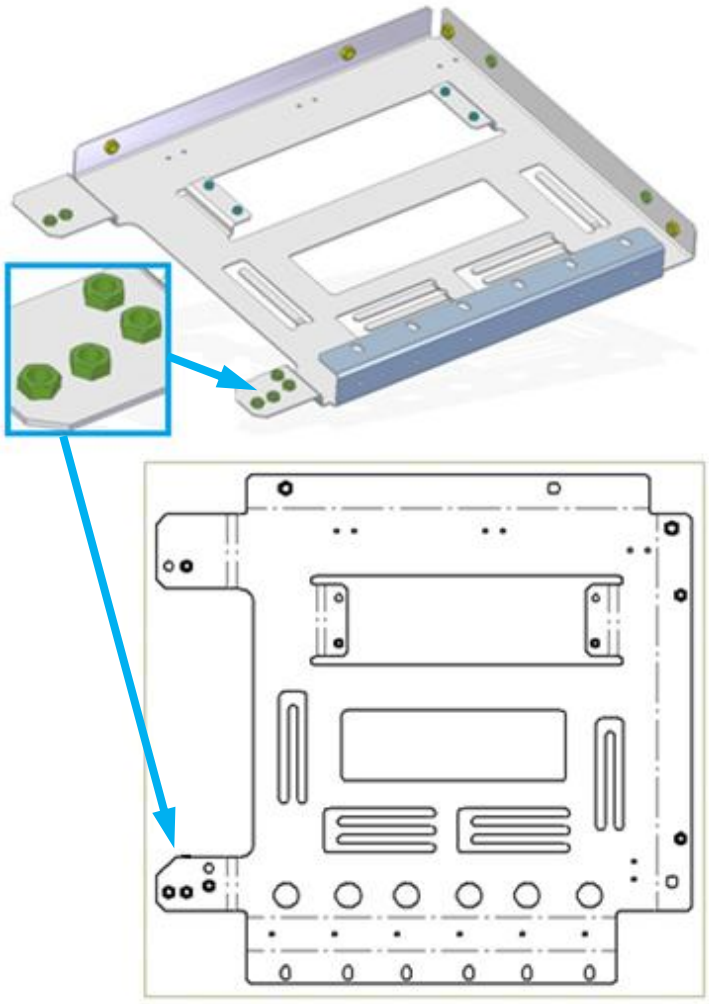


The Customer

A leading software OEM from Japan in the field of CAD/CAM software for sheet metal and related peripheral areas.

Background

Customer had existing 2D sheet metal modelling software. They wanted to develop advanced 3D sheet metal design software based on SolidEdge platform.



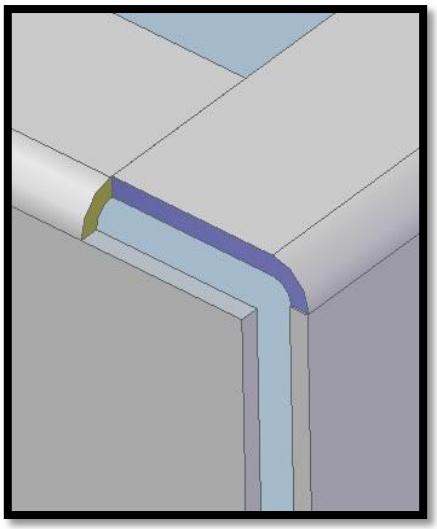
[Unfold with hardware]

Key Features

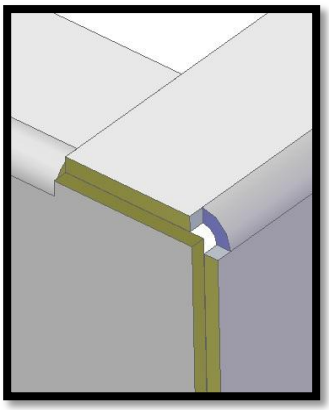
- Creation of valid SolidEdge sheet metal model from neutral CAD data
- Calculation of bend deduction values (proprietary knowledge) for high accuracy
- Support for sheet metal assemblies (parts with different thickness values, hardware components etc.)
- Support for variety of setback types for cleanup of overlapping flanges, gaps between flanges
- Model check: Detection of holes, notches, form-features near bend lines
- Support for user defined form features

Benefits to Customer

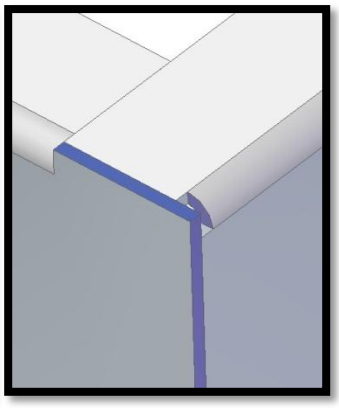
- Vast experience on SolidEdge platform and underlying PARASOLID kernel
- Aashai team's sound knowledge of Computational Geometry and Solid Modelling directly useful for,
  - Analysis of complex parts which are not supported in most CAD systems
  - Design of algorithms to successfully handle these parts
- Agile development model enabled customer to launch the product in a very short time and to get competitive advantage against their competitors
- Customer has a very cost-effective off-shore development partner



Input model with gaps



IN-IN setback



IN-OUT setback