Aashai Technologies

# SOLIDWORKS add-in for Prototype of Slicing tool for 3D printing

Input Geometry

## The Customer

A start-up 3D printer manufacture from USA.

## Background

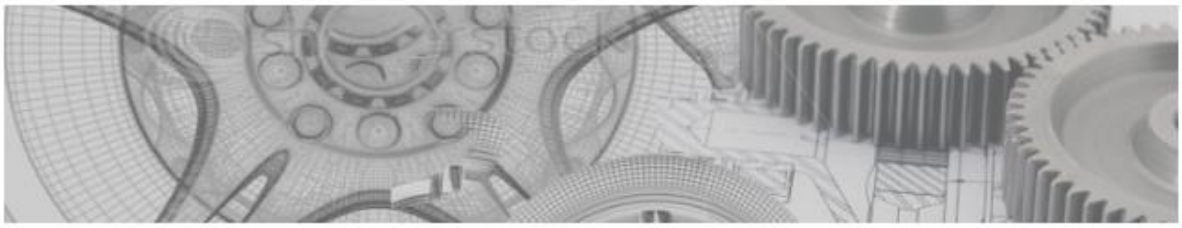
Customer required a tool which will show simulation of 3D printer tool and calculate the Normal and tangential vector along the cross-section path

**Project Duration: 2.5 man-months**

## Key Features

- Generate 3D-printing data from a neutral CAD file using SolidWorks
- Define the slicing pitch and create cross section profiles for a given part along the given direction
- Calculate Normal and Tangential Vector at each point along each cross -section
- Display all cross section in SolidWorks.
- Export all normal and tangent vector data in txt file.

Slicing the input part to calculate cross sections



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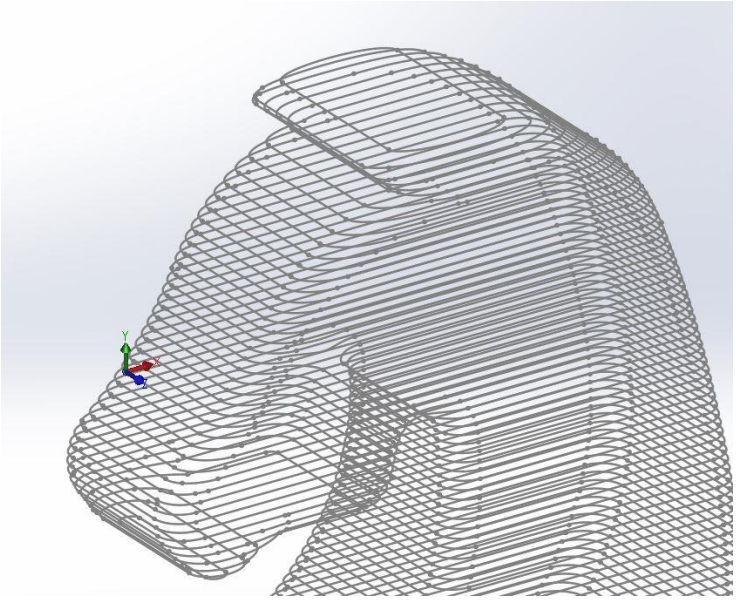
## Benefits to Customer

- Strong knowledge of SolidWorks API helped customer to decide the right level of APIs to be used for slicing
- Expertise in Solid modelling helped customer to identify the possible geometry level issues in slicing data generation
- Solution delivered ahead of time
- Lower cost of development of a prototype due to Aashai's pricing



Calculate normal and tangent Vector