

Time Savings

**40%**

Labor Cost Savings

**35%**

Rollglider is an amusement ride which simulates proximity flight and high-speed gliding. The ride line is a fixed 3-dimensional curve, featuring dips, turns, and spirals. Produced by a finite number of segments, each part being a circular or a straight line.

Unlike conventional processes, in which the geometry for each individual curve is designed through manual iterations, the proposed workflow based on optimization through generation of a number of possible solutions.

The generated designs are then automatically rated. The evaluation process is based on the average discrepancies compared to the original 3d curve and the transition smoothness between discrete segments.

The best performing solution is then generated in the software interface and the segments are ready to export for production.

Since the workflow has been introduced, over 30 projects have been complete with a dramatic cut of the design workhours and related costs.

