



Published on *CD-adapco* (<http://www.cd-adapco.com>)

[Home](#) > Optimate Evaluation: Design Optimization of a Generic Glider

---

## Optimate Evaluation: Design Optimization of a Generic Glider



One of the difficulties of optimization of any design using CFD is the sheer number of runs required using traditional methods. This presentation details the use of Optimate for the optimization of a generic glider. This case was designed to stress the SHERPA algorithm with a realistically complex set of design criteria to optimize an aerodynamic vehicle, including stability requirements and trimmed L/D performance requirements.

**Author Company:**

Lockheed Martin, US

**Author Name:**

Nathan Richardson

**Industries:**

[Aerospace & Defense](#)<sup>[2]</sup>

**Products:**

**Conference:**

[STAR Global Conference 2013](#)<sup>[3]</sup>

CD-adapco is the world's largest independent CFD focused provider of engineering simulation software, support and services. We have over 30 years of experience in delivering industrial strength engineering simulation.

---

**Source URL:** <http://www.cd-adapco.com/presentation/optimate-evaluation-design-optimization-generic-glider>

**Links:**

[1] [http://www.cd-adapco.com/sites/default/files/Presentation/1\\_Lockheed\\_Martin\\_NR.pdf](http://www.cd-adapco.com/sites/default/files/Presentation/1_Lockheed_Martin_NR.pdf)

[2] <http://www.cd-adapco.com/industries/aerospace-defense>

[3] <http://www.cd-adapco.com/conference/star-global-conference-2013>