IDETC -CIE

International Design Engineering Technical Conferences & Computers and Information in Engineering Conference

Hilton Anaheim, Anaheim, CA

WISCONSIN
UNIVERSITY OF WISCONSIN–MADISON

# Tutorial 1
# Learning Topology Optimization Through Examples and Case Studies

Initial Design TO Model

August 18, 2019

# Problem 2: Jet Engine Bracket

GE Jet engine bracket challenge 2013

# Requirements

- **Material: Ti-6Al-4V**
- **Minimum Feature size: 0.050 in**

## Goal

- **Design lightest possible jet engine bracket**

# Results_Pareto

Final Design
(84% volume reduction)

# Results

https://grabcad.com/challenges/ge-jet-engine-bracket-challenge/entries