



GM Cadillac CT6



For the 'Omega' architecture of the 2016 Cadillac CT6, innovative computer aided engineering (CAE) tools and methods were developed and used to create an efficient, lightweight, high-performance, mixed-material vehicle structure. These tools, which included immersive lattice topology optimization, mixed material selection optimization, and multi-disciplinary loadcase optimization, were used, along with expert interpretation of the results, to lead the design development of the architecture and lead vehicle structure. Weight Savings: 157 lbs (71.5 kg) compared to an equivalent sized traditional BFI construction

Category: **Full Vehicle**

Application: Cadillac CT6

Weight Savings:

157lbs

compared to an equivalent sized traditional BFI construction

Methodology:

Multi-Disciplinary Optimization and Material Replacement

