

# 2016 Enlighten Award Nominee



GM

**Cadillac XT5**



*Cadillac*

The 2017 Cadillac XT5 was designed on a completely new architecture within General Motors, with the goal of doing more, with less. The XT5 is 292lbs lighter than the SRX it replaces, and yet has more content, and higher performance. Weight saving was achieved largely without premium materials such as aluminum and magnesium. Instead, optimization, topology and CAE in the body and chassis led the weight saving effort. In addition, a number of other techniques were employed such as an increased use of structural adhesives and the use of a replacement of a mechanical park brake to a Motor on Caliper (MoC) design.

Category:  
**Full Vehicle**

Application:  
**Cadillac XT5**

Weight Savings:  
**292lbs** weight reduction compared to previous SRX model

Methodology:  
**Topology Optimization  
& Material Replacement**