The 2017 Brilliance V7 front subframe, an H-shaped structure, originally provided appropriate
dynamic stiffness, but did not meet weight requirements. The process to meet those
requirements broke traditional design methods, with the application of topology optimization
and the goal of achieving the minimum stress combination. Following the size and shape
optimization, the resulting structure is now about 2 kg lighter.

**Brilliance Auto Front Subframe**

**Category:** Module

**Application:** 2017 Brilliance V7

**Weight Savings:** 2.18 kg

lighter than a comparable subframe

**Methodology:** Structural Optimization