

# Corvette Daytona Prototype Topology



**Pratt & Miller Racing uses VR&D Genesis Topology Optimization to reduce the weight of the Corvette prototype wing/body (tail frame) without compromising structural integrity.**



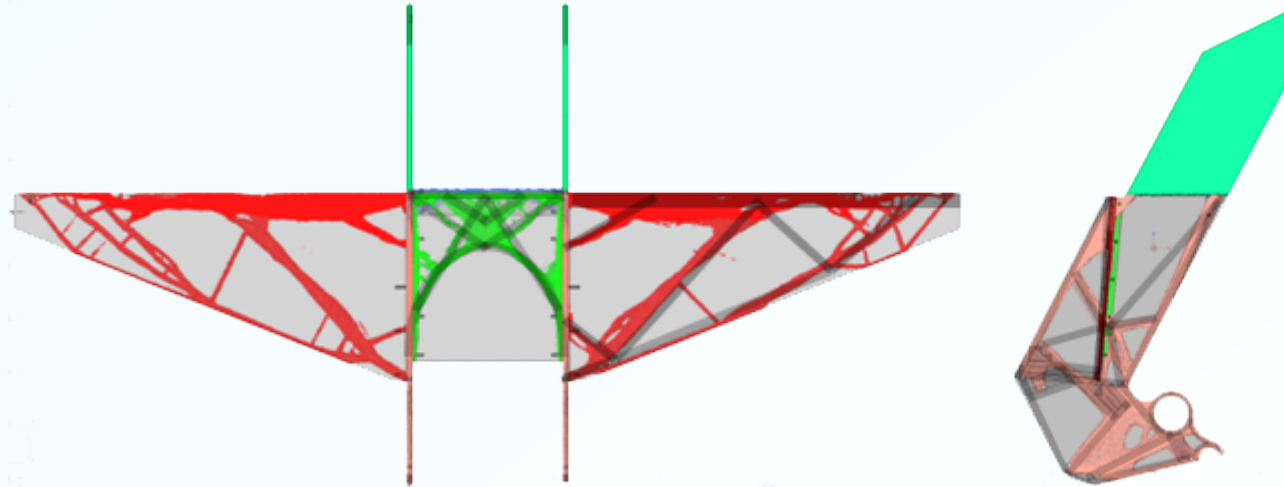
Corvette Daytona Prototype  
Designed and built: Pratt & Miller



Genesis Optimized Tail Frame

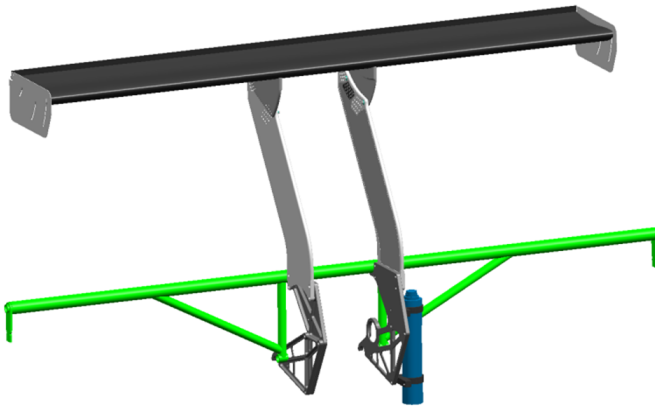
***“It’s safe to say that Genesis optimization has quickly become a standard step in the majority of critical Pratt & Miller designs” – Pratt & Miller Engineering***

# Corvette Daytona Prototype Topology

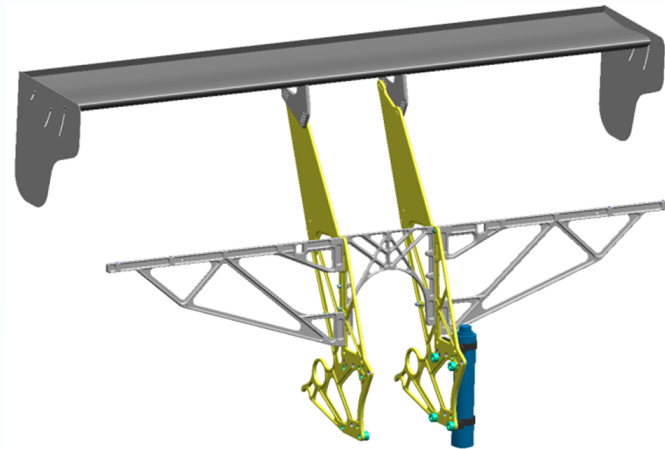


- The available design space (i.e. topology region) is shown in grey
- Topology Optimization migrates the specified amount of mass to the stiffest configuration while maintaining specified design constraints
- Load path interpretations are overlaid by the analyst as translucent black bars

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Previous Tail Frame Structure



Genesis Optimized Tail Frame Structure

**The Genesis Optimized Tail Frame:  
is 33% lighter, and  
surpassed Pratt & Millers stiffness and strength requirements.**

***“Genesis has become an invaluable tool that regularly allows us to cut roughly 30% of the weight out of existing competitive designs without sacrificing the stiffness and strength endurance racing requires” – Pratt & Miller Engineering***

# Corvette Daytona Prototype Final Tail Frame

