Measuring the Importance of Building a Formula 1 Engine

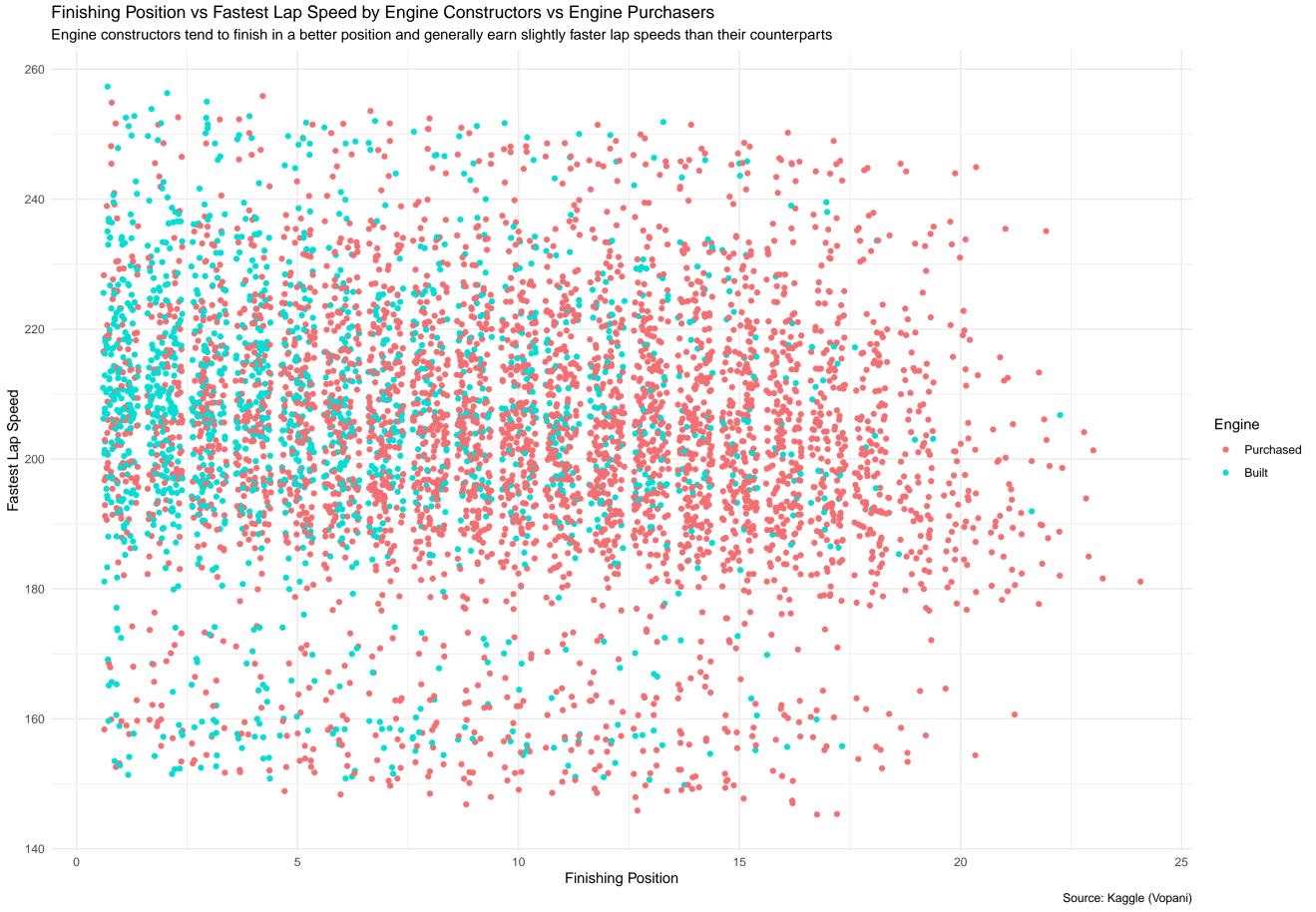
Connor Hanan

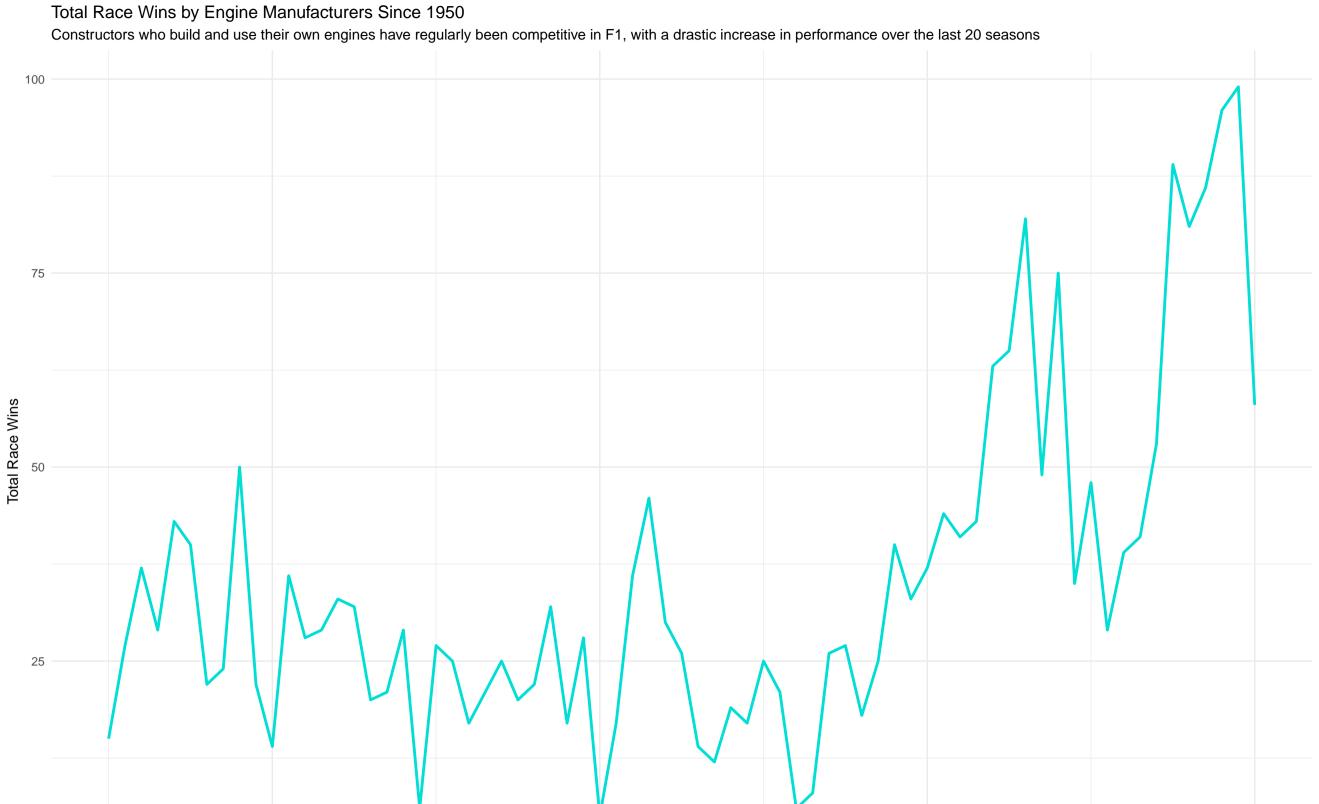
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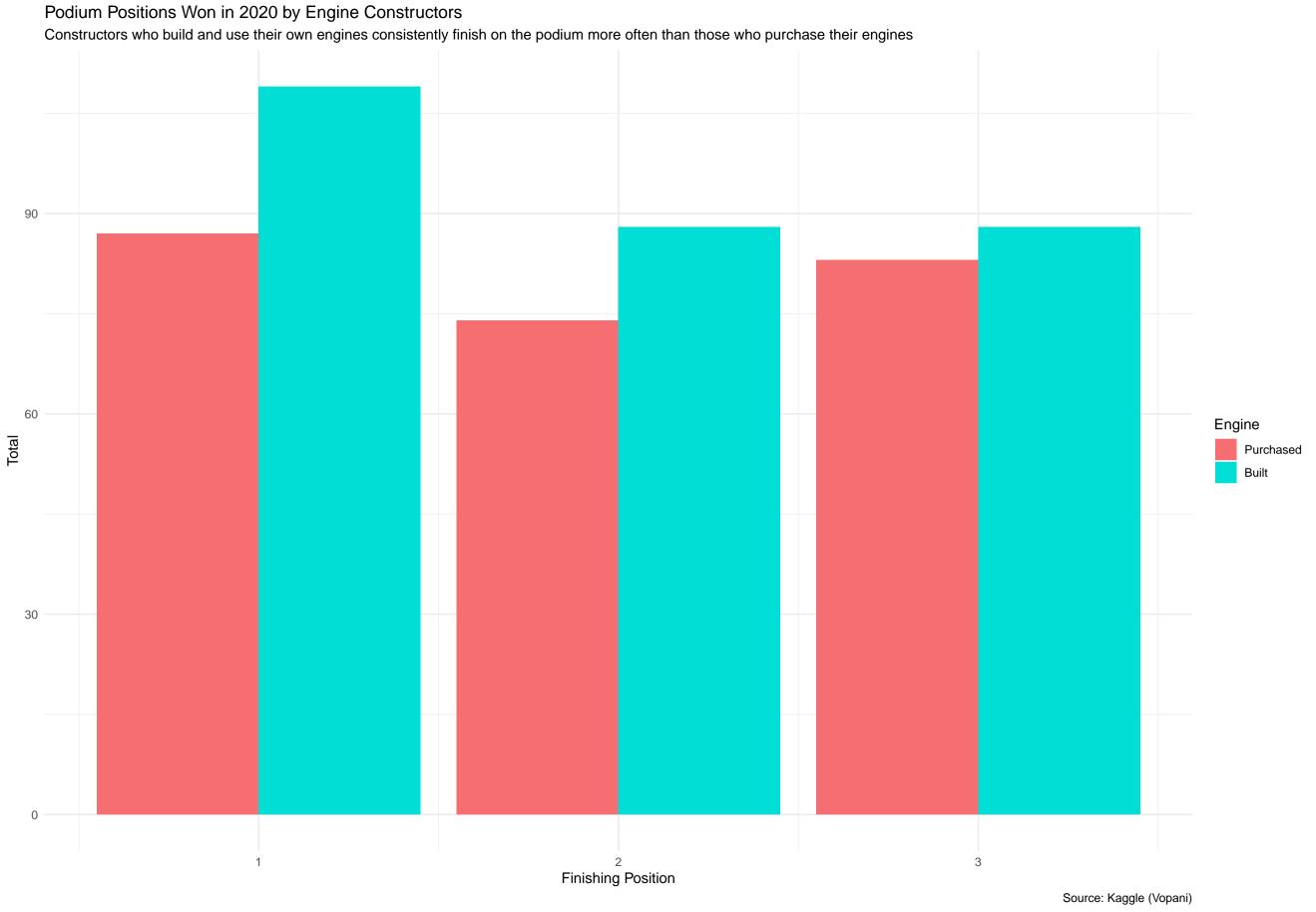
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How impactful is it for a Formula 1 constructor to design and build their own engine, and use it on their chassis? This is an disruptive story, as it forces F1 viewers to consider if engine constructors (i.e., Mercedes, Ferrari and Renault) receive an unfair advantage during races. This story is very compelling, as most fans believe the driver is the leading factor in performance; however, the vehicle they operate is just as crucial to the story.

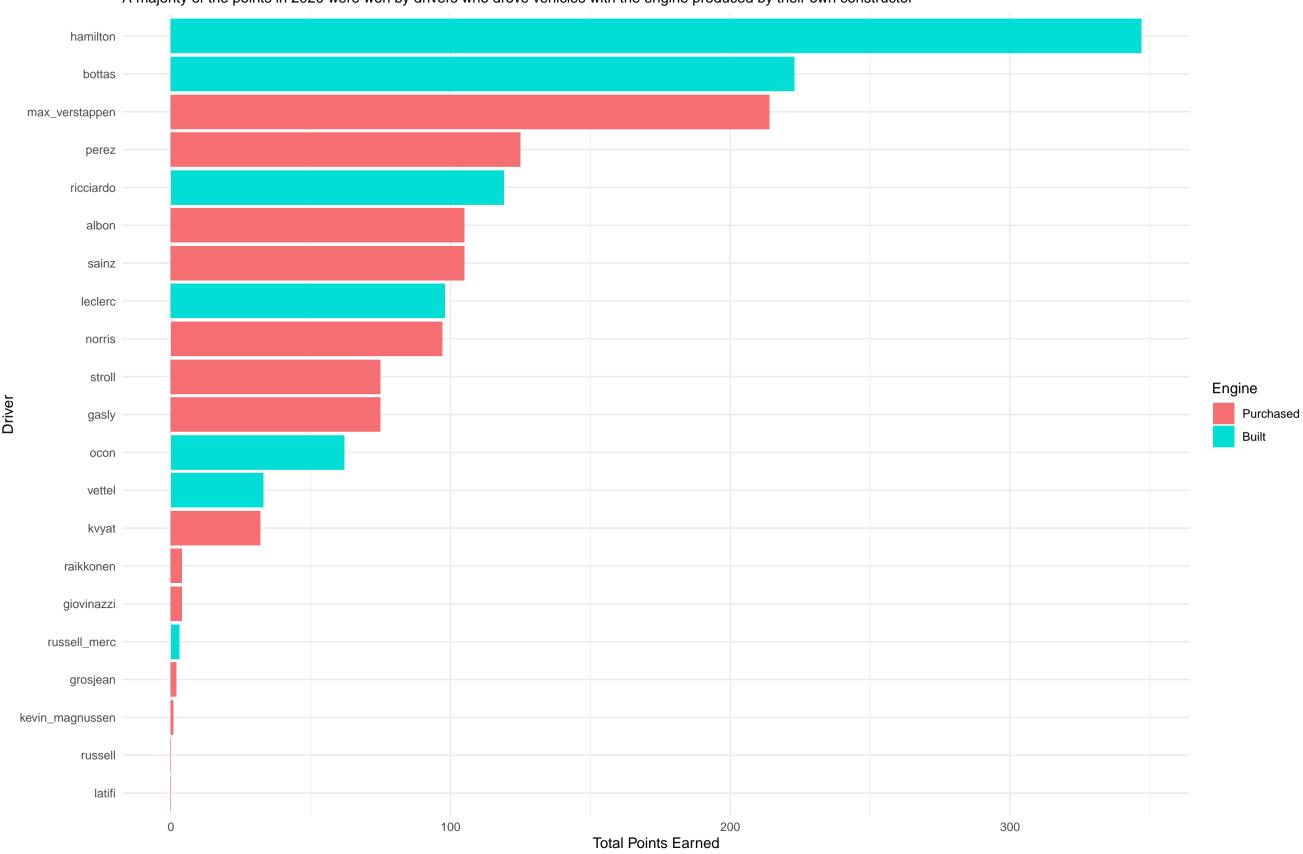






Total Points per Driver on the 2020 Grid

A majority of the points in 2020 were won by drivers who drove vehicles with the engine produced by their own constructor



Grid Position vs Finishing Position by Constructor in 2020

For the constructors who build their own engine, there tends to be more clustering in the lower left, indicating higher qualifying and finishing positions

