

Design and simulation of V6 car engine using SolidWorks software

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Abstract: This topic focuses on designing and simulating a V6 engine for automobiles using SolidWorks software. The context of the topic arises from the need to improve engine performance in the modern automotive industry, aiming to meet requirements for fuel efficiency and emission reduction. The objective of the research is to build a digital model to evaluate the dynamic and thermal characteristics of the new V6 engine. The method combines structural theory and experimentation during the design process, while deploying SolidWorks software for analysis and simulation. The expected results will provide useful solutions to improve engine performance, contributing to the development of electric vehicle and energy-efficient automotive technology.

Keywords: V6 engine, SolidWorks, simulation, automotive industry, engine performance