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DESIGN AND STUDY OF ELECTROMOBILE PROTOTYPE DTT-3

BY CATIA V5¹

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***Abstract:** The paper reviews the opportunities for developing and researching the suspension's element of an electromobile prototype by CAD product CATIA V5. It provides wide range of possibilities for data visualisation. The purpose of this particular paper is to examine element of suspension from prototype DTT-3 under specify features, before it can be produced. This suspension element is a subject of a stress test to determine its strength qualities during its exploitation. Thus, its size, weight and way of designing are being optimized to enhance its reliability and reduce the cost of production. Based on obtained results, element with better constructive characteristics has been designed and produced.*

***Keywords:** Design, Study, Prototype, Part, Suspension, Catia, FEM, Analysis*

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