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### **Studies and Analysis of the Rack and Pinion Steering Gear**

rack. The motion is then transmitted to the wheels by the tie rods. The design and type of the steering rack de-pends on the system chosen. The steering systems used are divided into power assisted and manual steering systems, each designed to help the driver to turn easily for optimal performance with different configuration of the vehicle.

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### **Research Paper On Rack And**

main purpose of this paper is to design and analyze the rack and pinion steering system. In this paper analyzed the two components of the steering system. Firstly, this paper investigates the characteristics of a rack and pinion gear system mainly focused on bending and

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steering also. To design four wheel steering in which rack and pinio geometry is at front as well as rear side, this mathemati-cal model should be applied on front and rear side separately. A CKNOWLEDGMENT I would like to thank my faculty Mr. Mihir Chauhan to give me such an opportunity to prepare this research paper. I am

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objective of this paper is basically to design and manufacturing a variable rack and pinion with higher to lower ratio in order to sensitize the steering for better manoeuvrability for Indian road condition or urban road condition. A variable-ratio steering, is a system that uses different ratios on the rack, in a steering system.

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In this paper a steering system is designed for a SELU Mini Baja car, which adopts a rack-and-pinion ... Substantial research and ... distance from the front axle to the steering rack axis. The remainder of this paper is organized as follows. In Section 2, the model of a rack-and-pinion

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design. Fixing the rack behind the axle line is better from both a geometrical and packaging viewpoint. Hence it is decided to have the rack positioned behind the front axle line i.e. a rear steer is chosen. VII. ACKERMAN PERCENT After the text edit has been completed, the paper is ready for the template. Duplicate the template file by using the

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### **Design and Optimization of the Steering System of a ...**

International Journal on Theoretical and Applied Research in Mechanical Engineering (IJTARME) ISSN : 2319 - 3182, Volume-2, Issue-4, 2013 70 IV. SCOPE In this project the conditions satisfying true rolling will be calculated from Ackermann steering law. Then the calculated values would be used to design the rack rod.

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