

# ELECTROMAGNETIC BRAKING MECHANISM FOR ROAD VEHICLES

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## ABSTRACT

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In this written work, I am presenting a report which would describe the planning, designing and completion of a prototype for my diploma in mechanical engineering project. This is a part of the requirement of the college for successful completion of the diploma. This prototype is intended to demonstrate the concept of my project titled 'Electromagnetic Braking Mechanism for Road Vehicles'.

This prototype will be able to display the use of electromagnets in the application of the conventional drum brake mechanism. The activation is to push a pair of brake shoes into a rotating drum in order to create the friction that will stop the drum from rotating. In this report, the text and the illustrations will show that electromagnetism and electromagnets can be used to replace this 'activation' which usually come from, mechanical or hydraulic means.

*Note: I would like to state here that my intention in making this prototype is not to make a model method that will eradicate or phase out other similar types of inventions and methods which are in use today. My intention is to make a concept that can be an alternative to those methods and mechanism of today. Hence I do not wish to and cannot do a comparison and prove that this method and concept is better than those that exist.*

*However, this prototype should be able to display the conceptual idea that I had in designing and making it.*