



**EVALUATION OF STEERING GRIP STRENGTH AMONG DRIVERS
DURING DRIVING PROTON'S CAR**

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AUTHORS DECLARATION

“I declared that this thesis is the result of my own work except the ideas and summaries which I have clarified their sources. The thesis has not been accepted for any degree and it not concurrently submitted in candidature of any degree.”

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Abstract

The evaluation of steering wheel grip strength among drivers may benefit to automobile designers and manufacturers to improve the quality of their product in terms of comfort and driving performance. This project is to evaluate the steering wheel grip strength among drivers during driving proton's car between male and female under varying speed (50km/h and 80km/h). 10 subjects were participating in this project including 5 males and 5 females. The measurements were made by using electromyography (EMG) and the data obtained were compared between male driver and female driver under different variance of speed. The different vehicle speed on the road shows significant different values that affect drivers. From this experiment, factors that contribute to the grip strength variances also have been determined. At the lower speed, pressure from the higher speed car is one of the factors of variances grip strength of the drivers. The different height of every person also affects the result.

TABLE OF CONTENT

CONTENTS		PAGE
	ACKNOWLEDGEMENT	i
	ABSTRACT	ii
	TABLE OF CONTENTS	iii
	LIST OF TABLES	iv
	LIST OF FIGURES	v
	LIST OF ABBREVIATIONS	vi
CHAPTER 1	INTRODUCTION	
	1.1 Overview	1
	1.2 Significant of Study	3
	1.3 Objective	3