

FINAL YEAR PROJECT REPORT

Black Box for a Vehicle



A PROJECT REPORT

Submitted by

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In partial fulfillment of the requirements for the award of degree of

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IN

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APPROVED

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DEPARTMENT OF ELECTRICAL ENGINEERING

SCHOOL OF ENGINEERING

UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

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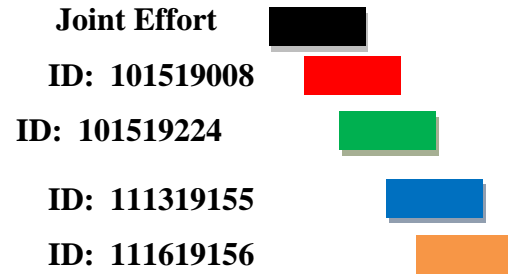


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DEPARTMENT OF ELECTRICAL ENGINEERING
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June 2

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DECLARATION

We hereby declare officially that our project work entitled, “Black Box for a Vehicle”, submitted to the “Department Of Electrical Engineering” under School Of Engineering at University Of Management And Technology, is a record and written evidence of our work performance under the guidance of Mr.Nauman Ahmad (Lecturer at EE Department). This document along with its project work is submitted in the partial fulfillment of the requirements of the award of the degree of *Bachelor Of Science in Electrical Engineering*. The results embedded in this document and performance done is not done or submitted to any other University or Institute for the award of any degree or diploma.

Muhammad Awais

Signature: _____

Signature: _____

ACKNOWLEDGMENT

With the help of ALLAH ALMIGHTY, we all are able to complete our project. We would like to pay gratitude to ALLAH and then thanks to our parents for putting up their confidence in us and getting us here. We would like to express my deepest appreciation to all of the people who have helped us to complete our task. A special thanks to our Sir Nauman Ahmad, whose guidance was a role model for us and added to our skills and co-ordination.

Furthermore, we would like acknowledge with much appreciation the role of our Institute whose name brings us together to complete this crucial task of “Black box for the Vehicle”. A heartiest congratulation to team members who work so well to complete the goal. Lastly we really appreciate the efforts of other staff members and teachers who have helped us in our presentation and tend us to develop a successful project. Their advices will really lead us to the road of success.

Thank you

Abstract

This thesis gives the whole idea and theme of the “Black Box for the vehicle” to the reader. The objective of the project is to design and implementation of Black Box for a vehicle using microcontroller connected with potentiometer (as sensor) and temperature sensor through MATLAB by (user defined). This system is contain electronic car that is operated by H-Bridge l298 and it is connected to the pic microcontroller the output of the H-Bridge change we vary the potentiometer. And the variation of the potentiometer is save in microcontroller. The system saved parameter when force less than 15 and recording saved when force greater than 15 system to record parameter and saved the value force at which car is hit.

The above part that we describe is related to the recording of the parameter we make project that can store at least eight step and the time delay between each step is 5sec. The second part of the car is related to the L298 that is operating the two dc motor at once. these are connected to the pic microcontroller and as parameter is change.

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