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ELECTRICAL ENGINEER DEPARTMENT

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" DEVELOPMENT OF AN AUTOMATIC LIGHTS CONTROLLER
FOR A CAR "

E/877

Project Report Submitted by :

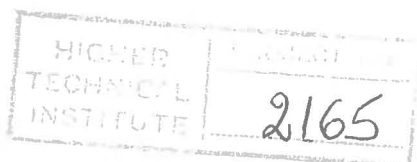
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To Eleni, with LOVE

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INTRODUCTION

In the last few years a lot of interesting and intelligent constructions were found about cars which make the life of a lot of people more exciting and more safe. Some of these interesting construction are the anti-theft system used in the cars to prevent them from theft, the automatic windows and the automatic measure of the pressure of the tires.

The main objectives of the present study is to design, construct, install and test an **Automatic Lights Controller** for a car which will consists of three constructions.

1. An automatic switching of the parking lights when the lights of passing cars hits a parked car at the night.
2. An automatic delay for few seconds of the lights at the on position after the turn signal switch is turned off.
3. An automatic dimmer and dipping of the main beam.

The readers of this project will come in touch with simple and complicated electronic circuits and theory which are divided in chapters. At the first one the readers will come across the background theory (chapter one). They will have the opportunity to study the basics of the electrical systems of a car and also the basic theory of some of the components used in the project. The circuit analysis (chapter two) is following, which analyses the circuits. At the end, the readers will come across with the testing and the installation procedures.

To sum up, I would like to urge the readers to patiently study this project, in order to gain full knowledge and understanding and also to be familiar with theoretical aspects and the basic philosophy of all the electronic circuits which are used.