

**Higher Technical Institute**  
**ELECTRICAL ENGINEERING COURSE**  
**DIPLOMA PROJECT**  
**AUTO ADJUSTED MICROPROCESSOR**  
**CONTROLLED LIGHTING**

**By**  
**SAVVAS KARATSIOLIS**  
**E. 1117**

**JUNE 1998**

**HIGHER TECHNICAL INSTITUTE  
ELECTRICAL ENGINEERING  
COURSE**

**DIPLOMA PROJECT**

**AUTO ADJUSTED MICROPROCESSOR  
CONTROLLED GARAGE LIGHTING**

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**JUNE 1998**

**E.1117**

HIGHER TECHNICAL INSTITUTE	PROJECT NO. 2852
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**AUTO ADJUSTED MICROPROCESSOR  
CONTROLLED GARAGE LIGHTING**

**BY  
SAVVAS KARATSIOLIS**

**Project Report Submitted to**

**The Department of Electrical**

**Engineering**

**of The Higher Technical Institute**

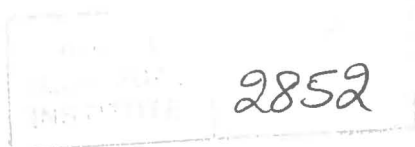
**Nicosia, Cyprus**

**in partial fulfilment of the requirements**

**for the diploma of**

**TECHNICIAN ENGINEER**

**in ELECTRICAL ENGINEERING**



**THE DESIGN, THE SOFTWARE AND THE  
CONSTRUCTION WERE DONE BY  
SAVVAS KARATSIOLIS**

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## The purpose and need of the circuit

The need of a light control device at a person's garage is a very common fact. This device must detect the arrival of the owner's car and switch on the light so that his car can be parked safely in the garage and allow the user to leave the garage without switching on the light manually and having the problem of switching off later. This is the purpose of the circuit of the project primarily and in addition to this other functions can be added to the operation of the device so that the user has more options that can contribute in his more effective convenience. These functions can be the following:

The automatic switching off of the lighting circuit when the car leaves the garage (not only when it arrives), the manual switching function which lets the user to switch on and off the light of his garage whenever he wants so that he can have continuous light without automatic switching off and the different delay options that can help the user to adjust the circuit to his needs and demands.