

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING COURSE

DIPLOMA PROJECT

DESIGN OF THE ELECTRICAL SERVICES  
AND SPECIALIZED ELECTRICAL SERVICES  
OF A LUXURY HOUSE

E. 1437

ANDREAS CHRISTODOULOU

JUNE 2009

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HIGHER TECHNICAL INSTITUTE	PROJECT NO
	3819

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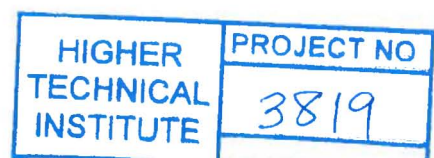
By, Christodoulou Andreas

Project submitted to the department of Electrical Engineering  
of the Higher Technical institute Nicosia-Cyprus in partial  
fulfillment of the requirements for award of the diploma of  
Technician Engineer in Electrical Engineering

Project Supervisor: Mr. J. Dimitriou

Lecturer in Electrical Engineering at H.T.I

June 2009



Acknowledgement  
Introduction

CHAPTER 1: Planning  
CHAPTER 2: Lighting  
CHAPTER 3: Acoustics  
CHAPTER 4: Power  
CHAPTER 5: Sound

To

All my family and especially to my parents for all their help and support they offered me with love and understanding throughout my years at the H.T.I.

CHAPTER 10: Control  
CHAPTER 11: Telephony  
CHAPTER 12: Lighting  
CHAPTER 13: Burglar  
CHAPTER 14: Fire Al  
CHAPTER 15: Design  
Conclusions

Appendix 1 - Tables  
Appendix 2 - Tables  
Appendix 3 - Lists

Index

# Table of Contents

	Page
Acknowledgement	5
Introduction	6
CHAPTER 1: Illumination Design	8
CHAPTER 2: Lighting Circuits	16
CHAPTER 3: Socket Outlet Circuits	22
CHAPTER 4: Fixed Electrical Appliances	29
CHAPTER 5: Storage heaters	51
CHAPTER 6: Air Conditions	57
CHAPTER 7: Swimming Pool Lights, Pool water pump	63
CHAPTER 8: Supply cable & distribution Boards	70
CHAPTER 9: Inspection and Testing	76
CHAPTER 10: Central Antenna Network	80
CHAPTER 11: Telephone Network	81
CHAPTER 12: Lighting Protection	90
CHAPTER 13: Burglar Alarms	95
CHAPTER 14: Fire Alarms	97
CHAPTER 15: Costing	100
Conclusions	105
Appendix 1 - Tables from IEE Regulations	
Appendix 2 - Tables from Other Sources	
Appendix 3 - Material Leaflets	
Drawings	

## INTRODUCTION

This report deals with the  
analysis of the...

## ACKNOWLEDGEMENT

I would like to express my thanks to all that have helped  
throughout this project and especially to my supervisor Mr J.  
Dimitriou

- ...
- ...
- ...
- ...

In the part of the project  
quality issues will be dealt

Some services provided

- ...
- ...
- ...

The project will be carried

in the 1st edition of the

(a) At the beginning of the  
the following form is to be  
completed.

(b) At the beginning of the  
regulations will be taken

## INTRODUCTION

This project deals with the design of the electrical and specialized electrical services of a luxury house.

In the Part A of the project the electrical services of the luxury house will be designed.

These services include:

- Lighting design
- Power Design
- Central antenna network
- Telecommunications system

In the Part B of the project the specialized electrical services of the luxury house will be designed.

These services include:

- Lightning Protection
- Burglar Alarms
- Fire Alarms

The design will be carried out according to:

(i) The 16<sup>th</sup> edition of the IEE Regulations

(ii) At the designing of the lightning protection, the burglar and fire alarms the following British Standards BS 6651, BS 4737, BS 5839 will be used accordingly.

(iii) In the designing of the telecommunications services the CYTA regulations will be followed.