

HIGHER TECHNICAL INSTITUTE
ELECTRICAL ENGINEERING DEPARTMENT

**ELECTRICAL SERVICES DESIGN
AND HOME AUTOMATION**

BY
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**In partial fulfillment of the requirements for the
award of the diploma of the Technician Engineer
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SUMMARY

Project Title: ELECTRICAL SERVICES DESIGN AND HOME
AUTOMATION

Student: Masourekkos Giorgos

- The purpose of this project is the designing of electrical services and home automation for a small house. The whole project must be carried out according with responsibility in order to provide safety to the people in it.
- The electrical design of the building is carried out according to IEE regulations of the 16th edition.
- The design of the electrical services and the automation of the house is explained in the main body of the report. At the end of the report appendices are included giving specifications for the devices and equipment used. Eventually detailed architectural drawings are provided, showing the locations of the different equipment.

INTRODUCTION

The objectives of this project are:

- Power
- Lighting
- Home Automation Design
- Home Automation Setup

Terms and Conditions:

1. The phase supply is 415V, 50Hz and TT earthing system must be used
2. The IEE regulation 16th edition and all related local EAC conditions of supply should be considered.
3. In the design of the specialized services all appropriate standards and regulations must be considered.

Distances shown on the schematic diagram include:

1. Height of distribution board = 1.6m
2. Height of cooker unit switch = 1.5m
3. Height of water heater switch = 1.6m
4. Height of socket outlet = 0.5m
5. Height of switches = 1.6m