

**SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY**  
**COLLEGE OF GRADUATE STUDIES**

# **Design of Intelligent Car Air-Conditioner Controller**

**تصميم تحكم ذكي لنظام تكييف سيارة**

*A Thesis Submitted in Fulfillment of the Requirements for the Degree of M.Sc.  
in Electrical Engineering (Microprocessors and Control)*

**By:**

**Mohamed Ali Gaffar Abd Elrahman**

**Supervisor:**

**Dr. Martino Ojwok A. Ajangnay**

**APRIL 2010**

*CHAPTER ONE*

**CHAPTER ONE**

*INTRODUCTION*

**INTRODUCTION**

# CHAPTER TWO

## CHAPTER TWO

# MAJOR COMPONENT

## MAJOR COMPONENT





# **CHAPTER THREE**

## **PIC MICROCONTROLLER**

# CHAPTER FOUR

## Intelligent Car Air-Conditioner Controller

# CHAPTER FIVE

Two integrated circuit chips are shown, one above the other, slightly offset. They are dark grey or black with numerous gold-colored pins along their edges. The top chip is labeled '74LS00' and the bottom chip is labeled '74LS04'.

## CONCLUSIONS AND

## RECOMMENDATIONS







