DESIGN AND CONSTRUCTION OF MICROCONTROLLER BASED ELECTRIC OVEN AND COOKER WITH TIME AND TEMPERATURE CONTROL

BY

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DEDICATION

This project is dedicated to GOD Almighty, the great I AM, fountain and source of all wisdom, knowledge and understanding and my lovely mother.
DECLARATION

I, Mr. Jacob Jiya Gana, declare that this work was done by me and has never been presented anywhere else for the award of a degree. I also hereby relinquish the copyright to the Federal University of Technology Minna.

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ABSTRACT

The design and construction of microcontroller based electric oven and cooker with time and temperature control is presented in this project. The project is built around an Atmel 89C52 microcontroller which is programmed to carry out some user defined function. The project is design to meet the safety requirement that is lacking in many similar systems in the market and also make it operation as easy to operate as possible. The microcontroller unit was interfaced with some other components to achieve the set objectives. A temperature sensor LM35 senses the temperature of both the cooker and the oven units which is in analogue form and fed the output voltage to the input of the analogue to digital converter (ADC) which convert the analogue signal to a digital equivalent signal. The microcontroller performs the mathematics and display the result appropriately on the display unit.
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