

Fire fighting robot embedded with GSM modem



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In The Name of Allah, The Most Beneficent, The Most Merciful

DECLARATION

We declare that the work contained in this report is our own, except where explicitly stated otherwise. In addition, this work has not been submitted to obtain another degree or professional qualification.

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Dedication

To our beloved parents whose prayers made us able to walk through every step of life and without whose endless affections and encouragement we couldn't do anything.

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Abstract

We want to develop associate intelligent multi detector based mostly fireplace fighting automaton in our existence.

Data for this study were gathered from different resources with the help of research papers. For boosting dc voltage from one level to other boost converter was used. This thesis is proposed to with provide a method of boosting dc voltage from 5 Volts to 14 Volts, by using a boost converter designed specifically for this task. Then this 12V DC is converted into same level Ac voltage using inverter. After that centered taped transformer increases 12V AC into 220V AC.

But at the same time power quality is also improved by LC filter

In conclusion, all aims, tests and data have been documented within this report. Results of simulation proved that the boost converter will increase 5 volts to 14 volts with 92% power conversion efficiency. Furthermore, Ac voltage obtained is obtained as an output of inverter.

Chapter 1

Introduction

1.1 Overview

Now a day's world population is increasing, by increasing population the energy demand also increasing. We overcome these energy crises by using fossil fuels, biogas and many other things, but these things are not good for our environment. Because the fossil fuels release CO₂ gas which causes global warming and raise the temperature. The world is now starting adopting the use of renewable energy resources to overcome global warming.