

FINAL YEAR PROJECT REPORT

THREE PHASE PURE SINE WAVE INVERTER



A PROJECT REPORT

Submitted by

Salman Ahmed 101519134

Jawar-ul- Hassan 101519016

Hamza Ashraf101519109

In the partial fulfillment of the requirement for the award of degree of

**BACHELOR OF SCIENCE
IN
ELECTRICAL ENGINEERING**

SCHOOL OF ENGINEERING

University of Management and Technology

July 2014

Declaration

We declare that this thesis was composed without plagiarism and work contained here is our own basic theory that we studied from literature and adapted it in our own words with references and this work has not been submitted for any other degree or professional qualification

Project Advisor

Miss Ayesha Iqbal

Members

Salman Ahmed

Jawar-ul-Hassan

Hamza Ashraf

Dedication

This project is dedicated to our parents whose help has
Been instrumental for the completion of this project.

ACKNOWLEDGEMENTS

In the name of ALLAH, who is the most merciful, the most compassionate; the one and only supreme power, the one whose will makes everything possible, and the one without whose will the simplest is impossible.

All thanks to our beloved Family members for their prayers, guidance, support and care. They dreamed for our future and advised us to work hard to fulfill their dreams. Without their financial support it would not have been possible for us to become supreme professionals. Actually we can't express those thanks through just a bunch of words.

We are really thankful to Miss Ayesha Iqbal, our teacher and project supervisor for his kind support and guidance during each and every phase of this project.

We are also indebted to the University of Management & Technology, Lahore which supported us throughout our stay by providing their best teachers, equipped labs and with suitable conditions for us to work on the project.

We appreciate the guidance of our class fellows and friends who provided us great help and moral support in each step.

Abstract

Over the past two decades technological advancement in power electronics and an increasing demand for high performance industrial machinery has contributed to rapid developments in motor control and other heavy loads. There are different PWM techniques to control motor speed and heavy loads by changing voltage and frequency. From all these techniques SPWM Technique is best choice. SPWM Technique modulation is usually based upon conventional Six Switches Three Phase Inverter. We have introduced new idea by implementing three phase pure sine wave inverter based upon Six Switches inverter by using SPWM technique.

For simulation we used Proteus and generated signals are sent to the gate drive circuit with the help of Controller and parameters are measured with the help of LAB VIEW.

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