FINAL YEAR PROJECT REPORT

THREE PHASE PURE SINE WAVE INVERTER

A PROJECT REPORT

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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

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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.

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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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