

(Internship Semester January-June)

Design of Front end converter using SVPWM technique

Submitted by

Shashank Agarwal 21104027

Under the Guidance of

Mr. Sarv Parteek Singh Technical Advisor Statcon Electronics Pvt Ltd Noida

Dr. Tejinder Singh Saggu **Faculty Coordinator** Punjab Engineering College (Deemed to be University) Chandigarh

Declaration

Acknowledgement

I am immensely thankful for the unwavering support and guidance provided by Mr. Sarv Prateek Singh, our esteemed Technical Advisor, throughout the duration of this project. His expertise in control systems and control algorithms were invaluable in overcoming technical challenges and achieving project objectives.

I extend my heartfelt gratitude to Mr.MS Saini, Director of our company, for his continuous encouragement and belief in my abilities. His support has been instrumental in navigating through various aspects of the project and ensuring its successful completion.

Furthermore, I would like to express my sincere appreciation to Dr.Dora for his invaluable guidance in the development of the SVPWM Inverter and his assistance with MATLAB. His expertise and mentorship have been indispensable in overcoming technical hurdles and achieving project milestones.

Lastly, I extend my gratitude to the Director of the college for providing me with the opportunity to work on this project. Their trust and support have been pivotal in enabling me to pursue this endeavor and gain valuable experience.

I am sincerely thankful to each of them for their contributions, which have played a significant role in the successful completion of this project.

CONTENTS CONTENTS

Contents

1	Summary	
2	Introduction	5
	2.1 Problem Statement	
	2.2 Overview	
	2.3 Difficulties and Challenges	
	2.4 Summary	
3	Work	6
4	Industry	7
5	Review	8
	5.2 Project review	8
6	Details of work and review	
	6.1 Problem Statement	9
7	Conclusion and Future scope	0
8	References	1

1. Summary

1.1 Timeline

2. Introduction

- 2.1 Problem Statement
- 2.2 Overview
- 2.3 Difficulties and Challenges
- 2.4 Summary

3. Work

4. Industry

5. Review

- **5.1** Company review
- 5.2 Project review

6. Details of work and review

6.1 Problem Statement

7. Conclusion and Future scope

8. References