ACKNOWLEDGEMENTS

First and foremost, I am thankful to the Almighty God for planning everything for my life and choosing me to perform this research work. Whenever things got tough while performing this work, my firm belief in Him strengthened me to accept these challenges with smile and bestow courage to work hard for solving these difficulties.

I would like to express my sincere thanks to Dr. Rupinder Singh, (Prof. Prod. Engg.) for being my research supervisor and for giving me an opportunity to do research in the area of fused deposition modelling assisted investment casting. His valuable guidance, positive thoughts, encouragement, understanding and kindness proved the existence of GOD in him as a teacher.

My profound gratitude to Dr. M.S. Saini (Director, GNDEC Ludhiana) and Prof. J.S. Grewal (Head, Production Engineering, GNDEC Ludhiana) for their motivation provided to me throughout the period of research.

Further I wanted to extend my acknowledgement to Director, Saini Precision Casting Pvt. Ltd. (Ludhiana) for providing me the investment casting facilities. I still remember those words which Mr. Saini shared with me on our first meeting “It’s your own industry, do what you want to do”.

I am greatly indebted to technical staff of GNDEC, Ludhiana, CSIR New Delhi and SERB DST (GOI) for financial support during the course of this experimental study.

My special thanks to Mr. Puran Singh (Manufacturing Research Lab, GNDEC, Ludhiana) for his help in performing the experimental work. I am also thankful to Mr. Archit Kapoor (Dainik Bhaskar, Chandigarh) for his long motivational speeches that helped me to face the problems in a healthy way.

Finally, I want to thank all my family members and friends. I could not have reached today’s point without their help and best wishes.

SUNPREET SINGH