

ACKNOWLEDGEMENT

At the outset, I express my sincere gratitude to my guide **Dr. P. K. Singhal, Professor & Head, Department of Electronics Engineering, Madhav Institute of Technology & Science, Gwalior (M.P), India** for accepting me for this study under his guidance. His valuable guidance, endurance, constant encouragement, great support and his precious time spent in discussion have guided me throughout the duration of this thesis work. I am thankful to my guide for providing me the resources and information whenever I needed to complete this work.

It has been an absolute privilege to work under him for the past five years, as I did my M.Tech. dissertation work under his guidance and I look forward to our future endeavors. I am also thankful to the staff of Microwave laboratory, Madhav Institute of Technology & Science, Gwalior for providing me all the necessary facilities to complete this thesis.

I also extend my sincere gratitude to **Honourable Chancellor and Vice Chancellor, JJT University, Jhunjhunu, (Rajasthan)** for their invaluable support. I am also thankful to Mr. Om Prakash, Ph.D. coordinator (Engineering), JJT University Jhunjhunu, (Rajasthan) to encouraging me for the research work related to my field. His innovative thoughts can never go unacknowledged.

I would like to thank my colleague, Mr. Naushad Siddiqui for his constructive suggestions in this research and in my professional development in general.

At the end of this list of people who have helped me to complete this work, comes the least noticed but most important forces in my life: my parents, my brothers, my sons and especially my better half, who have inspired me, supported me and loved me through it all.

(Alok Agarwal)