ACKNOWLEDGEMENTS

The author expresses her sincere gratitude to Dr. C. CHELLAMUTHU, Professor, School of Electrical and Electronics Engineering, Anna University, for his invaluable guidance and constant encouragement in the conception, execution and completion of the research work.

The author expresses her thanks to Dr. M.A. PANNEER SELVAM, Dean of Electrical Engineering for providing the necessary facilities for the implementation of this project.

The author takes this opportunity to express her deep sense of indebtedness to Mr. R. GIRIDHAR, Mr. V. ANAND, Ms. S.N.MARULVIZHI, Ms. M. SANTHI and Ms. J. LATHA, for their help at various stages of this research work. The author is grateful to Mr. S.P.NATARAJAN, QIP Research Scholar, who spent his available time for the research work on many occasions.

The author places on record her gratitude to M/s. VI MICRO SYSTEM, Perungudi, Chennai, for their timely help during the implementation of this project.

The author also thanks the teaching and the non-teaching staff members of School of Electrical and Electronics Engineering for their co-operation in carrying out the research work.

Last but not the least the author wishes to acknowledge the contributions of Dr. P. DANANJAYAN, Dr. R.P. KUMUDINI DEVI, Dr. S. RAMA REDDY, Dr. S.S. KUMAR and Mr. S. MUTHUKUMAR to the success of this project.

(G. UMA)