ACKNOWLEDGEMENTS

I am grateful to **Dr. S. R. Sawant,** Professor in Electronics, Shivaji University, Kolhapur for all guidance and necessary help given for this work. I experienced his delightful attitude of giving inspiration and encouragement. I have no words to express my feeling towards him.

I would like to thank Prof. Dr A. S. Vaingankar, Head of Electronics Department, Shivaji University, Kolhapur for making available facilities.

I sincerely thank Dr. Shalgaokar, Dr. M. D. Uplane, Dr. P. N. Vasambekar, A. B. Kadam of Electronics Department, Shivaji University, Kolhapur.

I am thankful to Principal P. Y. Madwanna, Vice-Principal Dr. K. S. Patil, Smt. Kasturbai Walchand College, Sangli and also authorities of the Lethe Education Societies, Sangli, for encouraging me from time to time.

For the necessary help offered by Shri S. K. Rathod, Shri P. M. Kadam, Shri R. R. Mudholkar, Shri C. S. Chitali, Dr. A. M. Sankpal, Dr. Shedam, Shri. S. P. Dharigouda, I have no words to express my gratitude towards them.

The sight inspired me throughout my educational career is due

to my mother. She encouraged throughout my educational career.

have no words to express my gratitude towards her.

I am also thankful to Deorukhkar and other Laboratory staff for

their timely help.

I am impelled to express my deepest appreciation to my wife,

Anuradha, daughter Dhanashri and son Gururaj for their patience and

under standing. Without their Co-operation I would have never

succeeded in my mission in life.

At last but not least, I heartily mention Sou. K. S. Sawant for her

ever pleasing attitude in extending help at any hours. I express my

warm feeling for her.

Finally I am thankful to Shri. Joshi for neat typing work.

Kolhapur.

Mr. M. D. Hanamane.