

ACKNOWLEDGEMENT

This dissertation could not have been written without Dr. Susanta Kumar Das, Associate Professor, Shahjalal University of Science and Technology, Sylhet - 3114, who not only served as my supervisor but also encouraged and challenged me throughout my academic program. I am very grateful to Prof. Dr. M. Habibul Ahsan, Head, Department of Physics, Shahjalal University of Science and Technology, Sylhet - 3114 for giving me permission to commence this project, to do the necessary work and to use departmental computer lab.

I am also very grateful to Dr. Yasmeen Haque, Dr. Abdul Hannan, Dr. M A Hye Chowdhury, Dr. Nazia Chowdhury, Dr. Syed Badiuzzaman Faruque and Mr. Elhamul Hai patiently guided me through the dissertation process, never accepting less than my best efforts.

I would like to give special thanks to my friend and my project work partner Anock Somaddar for encouraging patiently.

I would like to thank my roommates Shimul, Limon for giving me confidence to do this work all the time.

I will never forget the gratitude of my friends specially Chapol, Habib, Bakul and Mehedi.

I am thankful to all classmates and friends who made my stay at the university a memorable and valuable experience.

For the great inspiration and guiding to all of my work, I would like to thank my elder brother Nasim. I express my thanks and appreciation to Mony, Rony, Naim, Nizam for their understanding, motivation and patience.

My great thanks to my Ammu and Abbu whose love and guidance are with me in whatever I pursue and thanks to almighty.

Md. Enamul Hoque