

ACKNOWLEDGEMENTS

The first sentence in this section the author dedicates as a form of gratitude to God Almighty. Because of His will and grace, the writer was allowed to live and became a student in the Electrical-Telecommunication Engineering Study Program at Telkom University.

All the goodness the author achieved from the beginning of college until the completion of the Thesis, thanks to all lecturers' help, guidance, and direction. In particular, the author would like to thank the following parties.

1. Mr. Dr. Nachwan Mufti Adriansyah, S.T., M.T. as the first supervisor for his patience, motivation, enthusiasm, and immense knowledge.
2. Mr. Ir. Ahmad Tri Hanuranto, M.T. as the second supervisor for his encouragement and insightful comments.
3. My family as a whole for their continuous support and understanding when undertaking my research.
4. Merlyn Inova Christie Latukolan and Rizkia Feriska for the stimulating discussions and the sleepless nights we worked together before deadlines.
5. Jihan Nur Salsabila as the most special study partner who has accompanied the author since the first semester of lectures.
6. I Made Hendry Keswara, my deepest gratitude. Your encouragement when the times got rough are much appreciated and duly noted.

The author hopes that God Almighty can reciprocate the goodness of all parties.