

## ACKNOWLEDGEMENT

In the preparation of this Thesis, the author would like to express gratitude to all parties who contributed to the creation of this Thesis:

1. Thanks to Allah SWT, the Almighty God.
2. The author's family, **Daenudin** and **Sopiah Fatmawati**, and my little sister **Avril Aulia Putri** who never stop encouraging, supporting, and praying for the best for the author.
3. Mr. **Dr. Yudha Purwanto, S.T., M.T.**, for his guidance, suggestions, and criticism throughout the author's thesis development process. I hope he will continue to enjoy good health, safety, and professional success.
4. Mr. **Dr. Nyoman Bogi Aditya Karna, S.T., M.T.**, for his invaluable guidance, suggestions, and criticism throughout the author's thesis development process. I hope he will continue to enjoy good health, safety, and professional success.
5. **All lecturers and staff of Master of Electrical Engineering Study Program** for their knowledge, direction, and guidance.
6. I would like to express my sincerest gratitude to **Poetri Bestari**, who has been my unwavering source of strength and support throughout this academic journey. Her love, patience, and encouragement have been instrumental in navigating the challenges and triumphs of this thesis process.
7. **Febriana Nurokhman**, a colleague and friends, provided invaluable assistance and guidance throughout the thesis writing process. Her contributions

included offering support, offering advice, and accompanying the author until the thesis was completed.

8. The author cannot possibly mention every party who has helped in the author's life individually. Thank you, and may you always be protected by Allah SWT.

Bandung, 22 August 2024



RIVALDO NUGRAHA