## **GRATITUDE NOTE**

The author would like to thank profusely to all parties who have helped work on this final project, either directly or indirectly

- 1. Tuhan Yesus Kristus, for all the love, guidance and forgiveness in every mistake that the author has ever done.
- 2. My Parents, Angelica Irwanda and all my family, Throughout my thesis work, I've received unwavering support and encouragement from them.
- 3. Mr. Dhoni Putra Setiawan, S.T., M.T., serves as the primary supervisor, while Mr. Edwar, S.T., M.T., acts as the secondary supervisor, consistently offering guidance and assistance throughout my final project.
- 4. Umar Muazzad Hasibuan, S.T., and Gilbert Ginting, S.T., provided invaluable assistance and shared their knowledge, enabling me to successfully complete my thesis.
- 5. The dedicated lecturers at Telkom University, who actively contribute to the educational process, play a crucial role in shaping students learning experiences..
- 6. Special mention to Nandi Riyandani S.T., Jeremy Matthew S.T., Firman Manggasa S.T., and Petrik Sidauruk S.T. These wonderful individuals have been my companions, sharing laughter and fun throughout the days.