

ACKNOWLEDGMENT

The author recognized that the completion of this master's thesis would not have been possible without the support, guidance, and contributions of numerous individuals and institutions. Gratitude is extended to those who have provided assistance, shared their expertise, and offered encouragement throughout the process of completing this thesis, entitled "Post-Quantum Cryptography Based on Kyber-Dilithium Signcryption for IoT Smart Home." Appreciation is especially directed to:

1. First and foremost, all praise and gratitude are given to God Almighty, whose blessings, guidance, and wisdom have been the foundation of this work. Without His strength, grace, and unwavering presence, the completion of this thesis would not have been possible. Through every challenge and obstacle, faith in His plan provided the perseverance and courage needed to see this journey through to the end. For this and for all the countless blessings received throughout this process, heartfelt thanks are humbly offered.
2. The author thanks the author's parents whose unconditional love, support, and sacrifices have been the cornerstone of author's achievements. Their unwavering belief in author's potential and their constant encouragement have provided the strength and motivation needed to complete this thesis. Through their guidance, wisdom, and endless patience, they have instilled in me the values of hard work and perseverance. For their immeasurable contributions, author forever grateful. To the writer's three younger brothers and sister, Ignis Delanis Zebua, Indra Triyadi Zebua, and Ilias Septhyadi Zebua. Thanks for the supports and attention given to the author so that the author could complete this master's thesis.
3. To the supervisors, Dr.Eng. Favian Dewanta, S.T., M.Eng. as first supervisor and Dr. FARAH AFIANTI, S.T.,M.T. as second supervisor. thanks for the guidance and assistance given to the writer so that the writer can complete this master's thesis.
4. To author's closest friends, Meli Setiawati, Febby Fitri Permadani, Auviera Pascafiwi, I Deo Kelvin Aprianta Situmorang, Richardo Praystihan Sitepu, Rizqy Ilmi Naufal, Rozan Nauf Firmansyah, Maraden Naek Nainggolan, M.

Alfarafi Maulana Firdausa. Author would like to thanks for the support and help so that the author could complete this master's thesis.

5. To author's colleagues, Fadhel Ramadhan, Bisma Verdya Adhika, Syifa Melinda Naf'an, Nur Sulistia Wijaya, Al Amin Hussain Muharram Ishaq, Anak Agung Abhyakta Pawitra, Fadli Triaji, Maahirah Nasywa Elfiana Putri, Zhafirah Naghmah Ahmad, and the rest of DevSecOps team. Author would like to thanks for the reminders, supports, and help so that the author could complete this master's thesis.
6. To other parties who cannot be mention one by one, the author would like to thanks for the support, help, and the input that given to the writer so that the writer can complete this master's thesis.

Bandung, July 25, 2025

Ivan Saputra Zebua, S.T.