

PREFACE

All praise is due to the Almighty, by whose grace and blessings I have completed this Thesis titled "Feasibility Study Si Soil: Monitoring and Controlling Systems of Soil Nutrients in Soybean Based IOT using Long Range Communication (LoRa)" This work serves as a partial fulfillment of the requirements for the Degree of Master of Engineering in Electrical-Telecommunication Engineering, School of Electrical Engineering, Telkom University.

While this project represents a significant milestone in my academic journey, I acknowledge its imperfections stemming from my limitations as a researcher. I wholeheartedly welcome constructive feedback and suggestions to improve this work.

Finally, I extend my deepest gratitude to all who have supported this endeavor. With humility, I hope this research may contribute valuable insights and inspire readers in the field Smart Farming innovation.

Bandung, 18th July, 2025

A handwritten signature in black ink, appearing to read 'I Putu Angga Abiyoga', with a stylized, cursive script.

I PUTU ANGGA ABIYOGA