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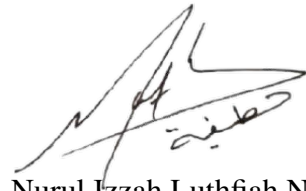
PREFACE

All praise is due to Allah, the Lord of all worlds, the Most Compassionate and the Most Merciful. By His grace and guidance, the author has successfully completed this thesis entitled "**Design and Implementation of a 3D LiDAR Sensor Using Edge Tracking Algorithm and 3D Point Cloud Reconstruction**". This thesis has been prepared to fulfill the graduation requirements for the Master of Electrical Engineering program at the School of Electrical Engineering, Telkom University.

Parts of this thesis have also been submitted to The 8th International Conference on Information Technology, Information Systems, and Electrical Engineering (ICITISEE 2024).

Any suggestions for improving this thesis are greatly appreciated. It is hoped that this work will contribute to future advancements in education and research, particularly in Indonesia.

Bandung, 18th September, 2024

A handwritten signature in black ink, featuring stylized Arabic calligraphy. The signature is written in a cursive style with some horizontal strokes.

Nurul Izzah Luthfiah Nur