

PREFACE

All praise and gratitude be to Allah SWT for his blessing and mercy, which enable the author to complete this thesis entitled “Regenerative Braking Control Strategy Effect on Battery Degradation in Electric Vehicle (EV)”. This thesis was submitted to fulfill one of the requirements of obtaining a Master’s degree in Electrical Engineering at Telkom University. May prayers and peace be always upon the Prophet Muhammad SAW, family, friends, and his followers.

This research is dedicated to the scientific community and professionals passionate about the development of electric vehicles, particularly in the field of regenerative braking and battery degradation. The aim of this study is to contribute to the understanding of the effect of control strategy and to provide an innovative approach for analyzing the impact on battery degradation through different control strategy.

The author acknowledges that this research is starting point and is far from perfect. Therefore, constructive feedback and suggestions from readers are highly encouraged to improve this work. It is hoped that this thesis can offer valuable insights for those interested in electric vehicle and control strategy of regenerative braking. Finally, the author expresses deep gratitude to everyone who has supported and contributed to this work. May Allah SWT reward all their kindness abundantly.

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Bintang Kriesna Nugraha