RESEARCH AND DEVELOPMENT OF A LIGHTING SYSTEM MODEL FOR THE KIA MORNING CAR

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***Abstract*—This thesis focuses on the development of a lighting system model for the KIA MORNING car. The research provides a comprehensive overview of the lighting system, including its functions, classification, and theory. The work aims to enhance the understanding of automotive lighting systems among students and contribute to the teaching materials for the automotive electronics curriculum. The model developed by the author can serve as a teaching aid for automotive students, providing a practical understanding of the lighting system components and their functions. The research covers the functions, classification, and theory of automotive lighting systems, as well as the specific components of the KIA MORNING car's lighting system. The limitations of the research include the limited knowledge and time constraints, which may have affected the depth of the analysis and the practical implementation of the model.**

***Index Terms*—lighting system, KIA MORNING, automotive electronics, teaching model, theoretical background, system model**

I. Introduction

The thesis introduces the KIA MORNING car and its lighting system, emphasizing the importance of the topic. The KIA MORNING is a popular compact car in Vietnam, and its lighting system plays a crucial role in ensuring the safety and visibility of the vehicle. The research aims to develop a model of the KIA MORNING car's lighting system, which can serve as a teaching tool for automotive students. The work is based on extensive literature review and practical implementation. The research is part of the curriculum for students studying automotive electronics, aiming to enhance their understanding of automotive lighting systems [1]. Published articles on the methods and subject of this project provide context for this English summary [4].

II. Methods

The methods section covers the theoretical background of automotive lighting systems, including the functions, classification, and theory of lighting systems. The author also developed a model of the KIA MORNING car's lighting system, which is documented in the source report. The model includes the headlight, taillight, and signal light systems, as well as the control mechanisms for these components. The research is based on a combination of theoretical knowledge and practical implementation, with the author drawing on existing literature and the technical specifications of the KIA MORNING car. The limitations of the research include the limited knowledge and time constraints, which may have affected the depth of the analysis and the practical implementation of the model [1].

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III. Results

The results of the research are documented in the source report. However, the author suggests that the model can be used as a teaching tool for automotive students. The model includes the headlight, taillight, and signal light systems, as well as the control mechanisms for these components. The model provides a practical understanding of the lighting system components and their functions, which can be used to enhance the teaching materials for the automotive electronics curriculum. The limitations of the research include the limited knowledge and time constraints, which may have affected the depth of the analysis and the practical implementation of the model [1].

IV. Discussion

The discussion section is documented in the source report. The author mentions that the research contributes to the understanding of automotive lighting systems and can be used to enhance teaching materials. The model developed by the author can serve as a teaching aid for automotive students, providing a practical understanding of the lighting system components and their functions. The research covers the functions, classification, and theory of automotive lighting systems, as well as the specific components of the KIA MORNING car's lighting system. The limitations of the research include the limited knowledge and time constraints, which may have affected the depth of the analysis and the practical implementation of the model [1].

V. Conclusion

The research successfully developed a model of the KIA MORNING car's lighting system, which can be used as a teaching aid. The author acknowledges the limitations of the research due to the limited knowledge and time constraints. The model includes the headlight, taillight, and signal light

systems, as well as the control mechanisms for these components. The model provides a practical understanding of the lighting system components and their functions, which can be used to enhance the teaching materials for the automotive electronics curriculum. The research contributes to the understanding of automotive lighting systems and can be used to improve the teaching of automotive electronics. The author hopes to receive feedback from teachers and students to further improve the model [1].

References

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