INTELLIGENT PARKING SYSTEM

By

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FINAL REPORT

Submitted to the Electrical & Electronics Engineering Programme
in Partial Fulfillment of the Requirements
for the Degree
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CERTIFICATION OF APPROVAL

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A project dissertation submitted to the
Electrical & Electronics Engineering Programme
Universiti Teknologi PETRONAS
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May 2011

CERTIFICATION OF ORIGINALITY

This is to certify that I am responsible for the work submitted in this project, that the original work is my own except as specified in the references and acknowledgements, and that the original work contained herein have not been undertaken or done by unspecified sources or persons.

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Khairani Akmalina Binti Kamaruddin

ABSTRACT

The Intelligent Parking System is a system designed to prevent problems usually associated with car parks. Proper parking system in the urban areas has become becomes part of the successful business criteria. There are more shoppers get attracted to organized shopping complexes where ample, secure and effectively managed parking is provided. This project has focused on developing a system that will effectively manage the parking facilities at shopping complexes. This system aims in optimizing the use of limited parking spaces and at the same time increase customer satisfaction. The current system in place is manual and is biased towards the provision of security to the parked car. The proposed parking system takes into account that the drivers prefer to park at designated places. The system will be used to guide the driver to the available parking space. The image processing in other hand will detect and capture the car number plate and display in the LCD display together with that particular car designated parking space. Ultrasonic sensor system is being used to detect available parking space.

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