

SCHOOL OF ENGINEERING

PROJECT TITLE

CONSTRUCT AN IR CONTROLLED VEHICLE ROBOT

FINAL REPORT

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ABSTRACT

This report is based on the findings and research conducted from September 2005 to March 2006 as a requirement for the Final Year Project of the Bachelor of Engineering (Hons) in Electrical and Electronics Engineering program. The objective for this project is to conduct a survey on aiding devices and build a prototype base from an example device from the survey.

This project, 'Construct of an IR Controlled Vehicle Robot', where overall goal of the project is to create a vehicle robot that can controlled using the battery powered handset controller of an Infra-Red (IR) controller which able to drive forward or backward and steer left or right with the DC power supply and the battery rechargeable for the supply.

As a result from the title, the prototype is a vehicle Robot which basically is used transmit signal to receiver using Infra-Red (IR) Remote Control able the 2 DC motor control by PIC16F84A in the device, which one of the back motor able to move forward and backward, while another front motor can control to steer left and right, the purpose of this project is to enhance the device for aiding the people with disabilities by controlling household goods. Theory section and Prototype Design of all detail technical explanation of this project are included here.