SCHOOL OF ENGINEERING

DESIGN OF A CLIMBING ROBOT

FINAL REPORT

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Abstract

The aim is to design a basic autonomous robot to climb up vertically and continue moving horizontally on the top of a structure. Implementing PIC as the controller which is programmable and simple mechanical parts assembly to perform the climb, the robot can be upgrade to achieve a particular function in the future. In this millennium, automation and control system are commonly used in industrial environment. Robots and machinery are designed to complete numbers of application required in each field and its particular environment. Depending on the program on the PIC, the robot can perform certain tasks which are desired by the user. Assembly language is use as the medium to program the PIC. This report describes the design and implementation of the climbing robot.