SCHOOL OF ENGINEERING

FINAL REPORT

DESIGN OF AN INTELLIGENT CLIMBING MACHINE

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Abstract

The IPAM, the intelligent climbing machine was invented to enhancing a higher technology for better living life especially for the older aged and disabilities, to solve the problem of the human physical strength to work on the higher place for a long term time. This paper is always concentrated the research of PC- based control system, microcontroller system, sensors control system and mechanical structure based on the theory of the center gravity and the momentum. The robot IPAM could perform walking, climbing on the ladder, and gripping some matter which is attached on the higher location. This high technology machine will gain the interest and the relevant information of robotic industry area in the Malaysia market.