UNIVERSITY COLLEGE SEDAYA INTERNATIONAL

SCHOOL OF ENGINEERING FRAL YEAR PROJECT FRAL REPORT

DESIGN OF COMPUTER CONTROL FIVE FINGERS PROSTMETIC HAND

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JANUARY - AUGUST 2005

Abstracts

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With the intelligent of human being, prostheses were invented lately of these centuries. With this prostheses part it allows us to continue to live in this world like normal human being. Prostheses nowadays are not only can apply to many parts of the human being but it also can be applied to animals. As for the most common application are such as the prosthetic hand and arm.

Prostheses are normally control by micro-controlled, brain thinking or even muscles of the nature. As for the implementation, it needs to be tested out before hand by the computers. Therefore these rules out the use of computer control of prostheses part.

The goal of this project is to research, design and test an appropriate of computer controlled of five fingers prosthetic hand. Basically this project will have the ability of doing the most common action such as the key, cylindrical, spherical and pinch function.

Base on these four functions it also allows us to pick and hole others material such as pens, eggs, and tins and etc.

During this project, some experiment is done and the main objective in the designing part of this prosthetic hand is, it must be in normal human size and of course the material of implementation should be affordable by most of the people.

Keyword: Prostheses, Prosthetic hand, Computer control, Cylindrical, Key, Spherical Pinch.