

HIGHER TECHNICAL INSTITUTE

MECHANICAL ENGINEERING DEPARTMENT

# DIPLOMA PROJECT

STRENGTH DESIGN AND VISUALIZATION

OF A MACHINE MEMBER

M/965

POLIS KADIS

JUNE 2003

**HIGHER TECHNICAL INSTITUTE**

**MECHANICAL ENGINEERING DEPARTMENT**

**DIPLOMA PROJECT**

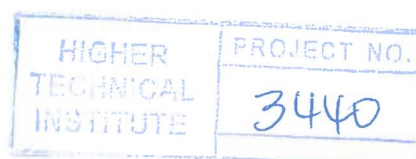
**STRENGTH DESIGN AND VISUALIZATION  
OF A MACHINE MEMBER**

**PROJECT NUMBER: M/965**

**STUDENT: POLIS KADIS (3M)**

**SUPERVISORS: PARASKEVAS DEMETRIOU – COSTAS NEOCLEOUS**

**JUNE 2003**



**STRENGTH DESIGN  
AND VISUALIZATION  
OF A MACHINE MEMBER**

by

**POLIS KADIS**

**Project Report**

**Submitted to**

**the Department of Mechanical Engineering**

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Finally I would like to thank my sister for her support.

Polis Kadis

## **S U M M A R Y**

The purpose of this project is to show how useful and helpful CAD and MATH software programs are to a mechanical engineer.

A presentation of existing CAD and MATH software programs is described.

A gearbox was created by using MathCAD program for design and Mechanical Desktop program for visualization.

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