FACULTY OF MECHANICAL ENGINEERING

UNIVERSITI TEKNOLOGI MARA

SHAH ALAM, SELANGOR

FINAL YEAR PROJECT

KJM 565

ANALYSIS ISM / SAE FLIGHT

PREPARED BY :

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B. ENG. (HONS) IN MECHANICAL ENGINEERING

NOVEMBER 2000

FACULTY OF MECHANICAL ENGINEERING

UNIVERSITITEKNOLOGI MARA

' SHAH ALAM, SELANGOR D.E.

FINAL YEAR PROJECT

KJM565

ANALYSIS E344 USING FLUENT

PREPARED BY:

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Ahmad Asfanizam Mohamad
Aizi Rizal Arshad

ABSTRACT

This project involves in analysing aerofoil E344 by using CFD Software, FLUENT V 4.25. The main objectives are:

i) To study lift, drag and moment of E344

ii) Study of circular cylinder

iii) Compare the new result with an existing result produced in experiment and another software (EPPLER)

In this report some mathematical formulations of equation governing drag, lift and moment are presented. Some calculation method using Microsoft Excel are shown where it involved the calculation of the lift, drag and moment, also included are results in graphical visualization and graph.