H. T. I.

MECHANICAL ENGINEERING COURSE

DIPLOMA PROJECT

# ARC WELDING USING A ROBOT ARM.

M/773

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# ARC WELDING USING A ROBOT ARM.

By

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Project report

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*To my family.*

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## SUMMARY.

This diploma project consists of two parts:
In the first part which are the chapters one to five, is the theoretical part of the project that deals with the historical background of the robots, their anatomy in general, their classification, their applications in industry and finely welding applications.

The second part of this project which are the chapters from six to thirteen, deals with the practical part of the project. In chapter 6. an introduction is done to the FANUC ARC Mate 100i industrial robot. In chapter 7. the various jogging methods of the robot are explained. Chapter 8. is about programming with the FANUC ARC Mate 100i robot and chapter 9. refers to the program structure. Chapters 10. and 11. are about arc welding and the construction design. Chapter 12. is about the program for welding the stool assembly and finally chapter 13. gives the general conclusions of the project.