

# COMPUTER CONTROL OF A ROBOT ARM

Project Report Submitted by :

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## SUMMARY

As the first objective of the project was to become conversant with the language of the subject an overview of robotics is provided in the introduction with historical background.

To completely satisfy this objective in chapter 2 the robot system is described, in chapter 3 a classification is provided and finally the power sources and control techniques are explained in chapters 4 and 5 respectively.

In chapter 6 the ALPHAI+ robot arm is described.

Chapter 7 refers to the procedure followed in constructing the interface.

Teach control programming is explained in chapter 8.

Computer control language is issued in chapter 9.

Chapter 10 contains the cartesian coordinates to stepper motor pulses conversion.

In chapter 11 the appropriate language is selected and the operation of the program is described.

Chapter 12 analyses program step-by-step.

Finally in chapter 13 the consequences from the introduction of robots in modern society are reviewed.

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ACKNOWLEDGEMENTS

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