



SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY
COLLEGE OF GRADUATE STUDIES



Design of Pick and Place Automatic Arm Using PLC

تصميم ذراع آليه للأخذ و الوضع باستخدام المتحكمات القابله للبرمجه

*A Thesis Submitted as Partial Fulfillment of the
Requirements for the Degree of M.Sc. in Electrical
Engineering
(Microprocessors and Control)*

By:

Izzeldin Mohammed Ali Abdelrahman

Supervised by:

Dr. Abdelfattah Bilal

AUGUST 2011