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THE KENYA POLYTECHNIC UNIVERSITY COLLEGE

DEPARTMENT: ELECTRICAL AND ELECTRONIC ENGINEERING.

PRESENTER: MATTHEW THIONG'O WAMBUGU

INDEX NUMBER: 401001056.

PROJECT TITLE: PROGRAMMING & INTERFACING ROBOT

COURSE OPTION: TELECOMMUNICATION - ENGINEERING

COURSE CODE: 2082/207.

SUPERVISOR: MADAM MARY ONG'AYI

EXAM SERIES: NOVEMBER EXAMINATION SERIES

THIS PROJECT IS PRESENTED TO THE KENYA NATIONAL EXAMINATION COUNCIL (K.N.E.C) AS A PARTIAL FULFILMENT FOR THE AWARD OF A HIGHER DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING – TELECOMMUNICATION OPTION.

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PREFACE

With the greatest necessity to work hard in order to achieve in industrialization and technology advancement for our country, the main task lies on the hands of technologists and the aspiring engineers as well as the innovative minds of our people.

The robotics field undertaken for contest, and as projects will not only generate indigenous technological solutions, it will also form a good avenue towards making important discoveries that would liberate our technological status as well as economically.

Employments can also be created as well as wealth.

The vision 2030 greatly rallies on the technological advancement, any nation that prosper in today world must put technology in the fore front.

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BI-DIRECTIONAL STAR DELTA STARTER

TRADE PROJECT

PRESENTER: RONALD MAYAKA MANIGA

INDEX NO: 401001083

PAPER NO: 2083/207

INSTITUTION: THE KENYA POLYTECHNIC UNIVERSITY

COLLEGE

DEPARTMENT: ELECTRICAL AND ELECTRONIC

ENGINEERING

OPTION: POWER AND ELECTRONIC

PRESENTED TO: THE KENYA NATIONAL EXAMINATION

COUNCIL

FOR THE AWARD OF HIGHER NATIONAL DIPLOMA IN

POWER AND ELECTRONIC ENGINEERING

DATE OF

N: OCTOBER/NOVEMBER SERIES

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PREFACE

This project involved research, design and construction of a bi-directional auto-manual star delta starter as the application of the knowledge attained during the Higher Diploma course.

The coverage involves the design of hardware and implementations.

The project consists of automatic control and jogging/ inching control, both in star delta operation