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THE KENYA POLYTECHNIC UNIVERSITY COLLEGE

SCHOOL OF ENGINEERING, SCIENCE AND TECHNOLOGY

ELECTRICAL AND ELECTRONIC ENGINEERING

DEPARTMENT

TRADE PROJECT

PRESENTER: EZEKIEL NJUGUNA
INDEX NUMBER: 107/00240
PROJECT TITLE: AUTOMATIC LIGHTING ROAD SIGN
COURSE OPTION: POWER OPTION
COURSE CODE: ET303107
SUPERVISOR: MR. KABIRU
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PREFACE

In this modern world transport and communication industries have felt the biggest impact of technology.

In particular road transport has moved to another step i.e. modern tarmac road with as many lanes as possible have been constructed all over the world.

However the designer and constructor of modern roads have not taken keen interest in constructing road sign. This has resulted to ancient road sign being used up to date i.e. plastic or metallic boards painted a road sign on them. These road signs are not reliable signs since they are affected by weather conditions.

The automatic lighting road sign further takes the construction of modern roads to another higher level since its reliable i.e. it gives a clear indication of the road sign and it's not affected by weather conditions.

It involves a sensor (LDR) that senses light from an approaching car; output of the sensor is amplified and used to bias a transistor which is a conditional switch thus having current in the collector hence lighting lamp connected across it. These lamps are enclosed which cover containing the drawing of a road sign thus giving clear indication of the road sign.

This design takes construction of a road sign to modernity by coming up with a more reliable road sign.