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KENYA POLYTECHNIC UNIVERSITY COLLEGE

**DEPARMENT: ELECTRICAL AND ELECTRONICS
ENGINEERING**

PRESENTER: KARANJA VICTOR MBURU

INDEX NUMBER: 107/08230

POJECT TITLE:

DIGITAL HEART BEAT MONITOR

COURSE OPTION:

DIPLOMA IN TECHNOLOGY (ELECTRONICS OPTION)

COURSE CODE: Et301107

SUPERVISOR: MR. KAMAU

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PREFACE

Due to the current rapid change of technology on day-to-day life, the living standard of people is changing drastically in urban and rural areas. This gives a chance for heart disease and related disease to arise. Through the research, the author found the design of a digital heart beat monitor would match people living in both rural and urban areas with the changing technology. This lead to the choosing of the project. This project will brief the readers what has been covered in each chapter.

The project has four chapters. Chapter one will cover introduction at large. It includes objectives, scope and theoretical statements, hypothetical circuit operation and analysis methods; explanation of block diagrams and specifications. Related block by block analysis circuits such as logic circuits, sequential logic circuits, op-amps, discreet devices and display circuits. The principle of operation and design to get various components was done in Chapter three which shows the project design of each block, determination of practical component values and overall integration of the project blocks. Chapter four shows the complete circuit diagram and its description (testing and the results), components layout, testing procedure and test results with the project cost.