

Proposal Layout

Front Pages

- i. Cover page
- ii. Declaration
- iii. Table of contents
- iv. List of Tables
- v. List of Figures
- vi. Abbreviations & Acronyms
- vii. Abstract

Note: Very important

1. The cover page should be symmetrically arranged.
2. Each sub-title on the front pages should begin on a fresh page.
3. The table of contents, table of figures, e.t.c, should automatically be generated using Word or other relevant software.
4. Use Times New Roman, font size 12 and 1.5 line spacing. Use Full Justification for text alignment in the whole document.
5. All equations must be typed using the equation editor, MathType etc.
These equations must also be numbered, e.g. (2.1) refers to the first equation in Chapter 2.
6. All references must have been cited in the document body and should be in alphabetical order, i.e., in the order in which they are referred to in the document [1].



THE TECHNICAL UNIVERSITY OF KENYA
FACULTY OF ENGINEERING AND THE BUILT
ENVIRONMENT
SCHOOL OF ELECTRICAL & ELECTRONIC ENGINEERING

Project Proposal

<Project Title>

<Student Name>

<Student Admission Number>

<Course Unit Title>

Course Program Coordinator

<Name>

<Programme Name>

This project proposal is submitted to the School of Electrical and Electronics Engineering in partial fulfillment of the requirements for the award of the degree of *<Program Name>*

Declaration

This proposal is my original work and has not been presented in any other university for a degree of otherwise.

Student Name:.....Signature Date:.....

This proposal has been submitted for examination with my approval as the Program Project Coordinator.

Name Signature Date.....

Program Project Coordinator

Acknowledgement

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Note:

i)Page numbers given are just indicative, ii) Proposal length should be between 10 and 12 pages (excluding cover page and preliminary pages)

List of Figures

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List of Acronyms

(Should be in alphabetical order)

Abstract

The abstract serves as a general brief overview of the intended project and should have paragraphs explaining:

- (i) Problem to be solved
- (ii) How it will be solved
- (iii) Expected results.

Chapter 1: Introduction

1.1 Background Information (*citations are found here*)

In recent decades there has been a shift in the transportation industry to greener options [2].

1.2 Problem Statement

The green effect is causing natural disasters

1.3 Proposed Solution

Electric vehicles are proposed to curb the problem of greenhouse emissions. The EVs will be composed

1.4 Objectives

1.4.1 Main Objective

To design, construct and test an EV that utilizes green energy

1.4.2 Specific objectives

- i. To construct a power supply to power the EV vehicle
- ii. To develop a battery to carry charge for the electric vehicle
- iii. To construct the body of the electric vehicle

1.5 Block Diagram

(The block diagram followed by a brief description of the function of each sub-block)

1.5.1 Sub-block 1

1.5.2 Sub-block 2

Chapter 2: Literature Review

2.1 Related Work

- *Discuss previous works done by others that are related to your work and the methods they used and where necessary, the results they obtained. See how different their work is from your proposed work.*

2.2 Motion sensors

2.3.1 Ultrasonic sensors

2.3.2 Infrared sensors

2.3 Controllers

2.3.1 PIC Microcontrollers

2.3.2 AVR Microcontroller [3]

Note: In this chapter you open up the block diagram in Chapter 1 and explain the various parts that are constituted in each sub-block [4].

Ensure that proper in-text citations are carried out appropriately.

Chapter 3: Methodology

3.1 How to achieve specific Objective 1

3.2 How to achieve Specific Objective 2

3.3 How to achieve objective 3

3.4 How to achieve Specific Objective 4

Note: Make use of flow charts and/or algorithms in explaining how you intend to achieve your objectives [4].

This chapter should take a maximum of two pages.

Chapter Four: Expected Results

- *Explain the nature of results that are expected from your work for each objective.*
 - *This chapter should take a maximum of one page.*
-

Budget

- *In a table form, approximate the proposed budget for your project.*

Project Work plan

- *Use a Gantt chart for your workplan in weeks.*

References

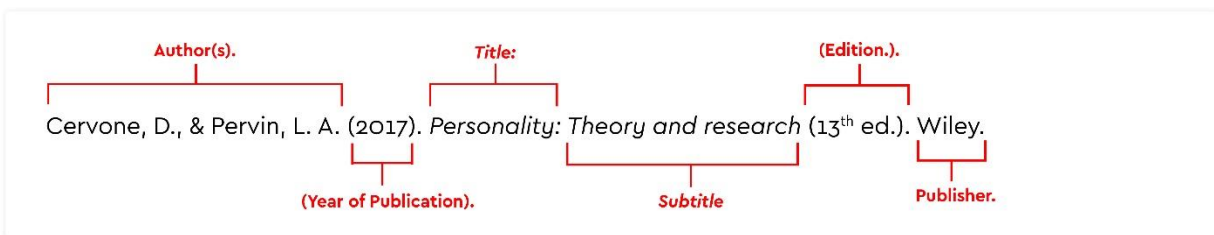
- [1] M. Gechanga, Proposal development template, Nairobi: TUK, 2023.
- [2] J. Joseph, "Shift of transportation industry to EVs," NTSA, Nakuru, 2022.
- [3] J. Job, "Electric Vehicles," Toyota, 03 June 2021. [Online]. Available: <https://www.ToyotaElectricveihcles.com>. [Accessed 19 October 2023].
- [4] M. Ahuna, Guidelines on Proposal writing, Kwa Zulu: UKZN, 2020.

– *The following are proposed presentation of citations and references:*

Citation: In the body text



In the Reference Section: *Book*



Reference list entries contain all the information that is required to follow up your source. Reference lists in APA are arranged alphabetically by author.

- [1] Jong, S. L., Jafri D., Lam, H. Y. (2014). Analysis of fade dynamic at Ku-band in Malaysia. *International Journal of Antennas and Propagation*, 1-7.
- [2] Freeman, R. I. (2007). *Radio System Design for Telecommunication* (3rd ed.), A Wiley Interscience Publication, John Wiley & Sons Inc.
- [3] Stoneman, R. (2008). *Alexander the Great: A life in legend*. Yale University Press.
- [4] Daily Nation (2020). Kenya Power Assures consumers era of inflated bill over. [online] at <https://www.nation.co.ke/counties/mombasa/Nomore-inflated-bills--Kenya-Power-says/1954178-4605092-s114gj/index.html>. Sunday June 10 2018. [Accessed 21.

- Journal articles: [1]
- Books: [2] and [3]
- Online materials (URL): [4]

Note:

(Try as much as possible to rely on information published in reputed journals, conferences and books from reputable publishers for reference.)