MODELING, FABRICATION AND ANALYSIS OF SINGLE SLIDER CRANK MECHANISM

A Project Submitted

by

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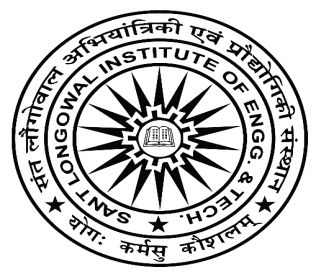
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To

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in Mechanical Engineering



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**Table of Contents**

* [Abstract 1](#_bookmark0)
* [Certificate 2](#_bookmark0)
  + [Declaration… 3](#_TOC_250013)
  + Acknowledgment… 4
  + [Introduction](#_bookmark1) 5-7
  + [Literature review 8-9](#_TOC_250012)
  + [Background 10-14](#_TOC_250011)
    - [Preliminary Research 10-12](#_TOC_250010)
    - [Basic Requirements 12](#_TOC_250009)
    - [Model Specifications 13-14](#_TOC_250008)
      * [Past Projects 13](#_TOC_250007)
      * [Professor Requests 13](#_TOC_250006)
      * [Research 14](#_TOC_250005)
  + [Problem Statement 15](#_TOC_250004)
  + [Design Specifications 16](#_TOC_250003)
  + [Preliminary Designs 17-18](#_TOC_250002)
  + [Final Design and Analysis 19-29](#_TOC_250001)
* [Final Design Modeling 19-24](#_TOC_250000)
* Analysis 25-29
  + Position Analysis 26-27
  + Velocity Analysis 27-28
  + Acceleration Analysis 28-29
  + Construction of Prototype 30-33
* Mechanism 30-32
* Program 32-33
  + Evaluation and Testing 34
  + Summary 35
  + Recommendations 36-40
* Aesthetic Recommendations 36-37
* Functional Recommendations 37-38
* Coding Recommendations 38-39
* Other Recommendations 39-40
  + Approximate Cost Estimation… 41
  + Appendices 42-60
  + References 61

**Table of Figures**

Figure 1: The Movement of a Slider-Crank Mechanism 10

Figure 2: An In-Line Slider-Crank Mechanism 11

Figure 3: An Offset Slider-Crank Mechanism 11

Figure 4: Crank Design with Variable Radii 17

Figure 5: Design for a Friction Mechanism for the Slider 18

Figure 6: Isometric CAD Model of the Frame and Base 19

Figure 7: Front CAD Model of the Frame and Base 20

Figure 8: Front CAD Model of the Mechanism 21

Figure 9: Isometric CAD Model of the Mechanism… 21

Figure 10: Front CAD Model of the Elevator… 22

Figure 11: Isometric CAD Model of the Elevator 23

Figure 12: Isometric CAD Model of the Whole Assembly 24

Figure 13: Position of the Pin Connecting the Crank and Slider Link 26

Figure 14: Horizontal Position of the Slider Block 27

Figure 15: Velocity of the Slider Link 27

Figure 16: Velocity of the Slider Block 28

Figure 17: Acceleration of the Slider Link 28

Figure 18: Angular Acceleration of the Slider Link 29

Figure 19: Theoretical Position of the Slider Block 34

Figure 20: Actual Position of the Slider Block 34

# Abstract

In order to further promote a deeper understanding of the design of mechanisms, we created a Quick Return Mechanism model that demonstrates how changing design parameters can alter the motion and time ratio of the device. Data from accelerometers on the mechanism were gathered and compared to the theoretical results from a mathematical model of the linkage. With this apparatus, a professor can easily demonstrate how a quick return mechanism functions on a theoretical and practical level to further students’ comprehension of the kinematics of the mechanism.

# Certificate

This is to certify that project report entitled **“Modeling, Fabrication And Analysis of Single Slider Crank Mechanism**” which is submitted by Shivesh Kumar Sharan, Rajnish Kumar, Kishan Kumar, Akash Kumar, Amit Kumar in partial fulfilment of the requirement for the award of degree

B.E. in Department of Mechanical Engineering of SLIET, Longowal, is a record of the candidate own work carried out by him under my supervision. The matter embodied in this project is original and has not been submitted for the award of any other degree.

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Date:

**Declaration**

We hereby declare that the submission is our own work and that, to the best of our knowledge and belief, it contains no material previously published or written by another person nor material which to substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgement has been made in the text.

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