Bahria University

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FINAL YEAR PROJECT REPORT

GD-LIFTER

In fulfillment of the requirement for degree of
Bachelors in Computer Engineering (BCE)

By

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SPRING-2023

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This report is submitted as required for the Project in accordance with the rules laid down by the Bahria University as part of the requirements for the award of the degree of Bachelor of Engineering. I/We declare that the work presented in this report is my/our own except where due reference or acknowledgement is given to the work of others.

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Date: June, 18th 2023

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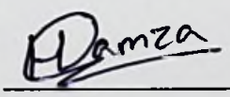
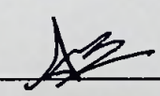
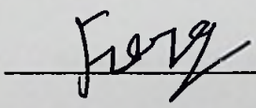
Name: Muhamamad Hamza Signature: 

Name: Arshman Haider Signature: 

Name: Furqan Haider Signature: 

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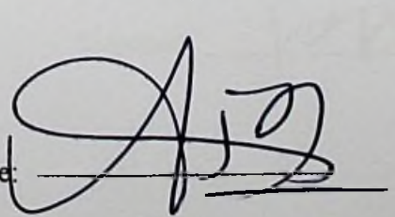
Name: Engr. Ahmed Faraz Signature: 

Acknowledgments

Final Year Project is a demonstration for undergraduate students which is combination of teamwork and implementation of theoretical and practical knowledge. It enhances abilities of students to step up in their field. With this willingness, we affiliated with thisproject.

In the successful accomplishment of our project, we would like to express our sincere gratitude and appreciate those people who are actively involved in our project.

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Abstract

This project focuses on the development of a low-budget, efficient, and user-friendly lift system operated via a mobile application using Bluetooth technology. The objective is to create a lift with a height of 6 feet and three floors, capable of lifting up to 3kg. The project involves the use of a microcontroller for control and integration, along with automatic doors on each floor. The project milestones include motor testing, frame and cabin construction, mobile application development, and system integration. The final deliverables will be a functional lift system that consumes minimal energy, operates silently, and offers a seamless user experience.

The benefits of this project lie in its cost-effectiveness, energy efficiency, and ease of use. The wooden frame construction ensures durability and affordability, making it suitable for various applications. The integration of a microcontroller enables precise control and automation, resulting in optimal performance and energy savings. The mobile application provides a convenient interface for users to operate the lift effortlessly. Overall, this project aims to deliver a reliable and accessible lift solution that meets the requirements of small-scale residential or commercial settings, while being environmentally friendly and budget-friendly.

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