

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama” Belagavi – 590 018



PROJECT REPORT ON

**“SMART SHOPPING TROLLEY USING
ARDUINO -A PROTOTYPE”**

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING

IN

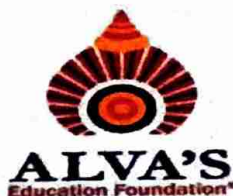
ELECTRONICS & COMMUNICATION ENGINEERING

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

A+, Accredited by NAAC & NBA (ECE & CSE)

Shobhavana Campus, Mijar – 574225

2023 - 2024

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(Affiliated to VTU, BELAGAVI)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled "SMART SHOPPING TROLLEY USING ARDUINO-A PROTOTYPE" is a bona fide work carried out by

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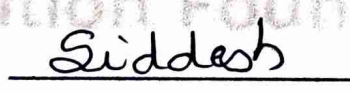
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in partial fulfillment for the award of BACHELOR OF ENGINEERING in ELECTRONICS & COMMUNICATION ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.


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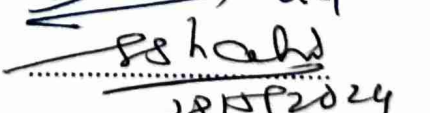

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28/1/24

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ABSTRACT

The advent of smart technologies has revolutionized conventional shopping experiences, with the introduction of innovative solutions like the Smart Shopping Trolley (SST). This abstract proposes the development of an SST employing Arduino microcontroller technology to enhance shopping efficiency and convenience. The SST integrates various sensors such as weight sensors, RFID readers, and barcode scanners to enable automatic item detection and tracking within the cart. Arduino's flexibility allows for real-time data processing, enabling features such as inventory management, aisle navigation, and personalized shopping assistance through a user-friendly interface. Furthermore, the SST's connectivity capabilities facilitate seamless integration with mobile applications for payment processing and personalized promotions. This abstract outlines the design and implementation of a prototype SST, highlighting its potential to revolutionize traditional shopping paradigms by leveraging Arduino's versatility and smart technologies for enhanced user experiences.