VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELGAVI-590018 KARNATAKA

A Mini Project Report (18ECMP68)

ON

"ANDROID BASED AUTOMATED WHEEL CHAIR"

Submitted in partial fulfilment of the requirement for the award of degree

BACHELOR OF ENGINEERING

IN

ELECTRONICS &COMMUNICATION ENGINEERING

Submitted by:

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SHRIDEVI EDUCATION

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Recognized by govt. of Karnataka, Affiliated to VTU, Belagavi and approved by AICTE,New Delhi)

Sira Road, Tumkur-572106

2021– 2022

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Certificate

This is to Certified that the Mini Project work (18ECMP68) entitled "ANDROID BASED AUTOMATED WHEEL CHAIR" has been Successfully carried out by DIVYA POL (USN:1SV19EC010) , PREKSHA NAYAK K P (USN:1SV19EC033), the bonafide students of Shridevi Institute of Engineering and Technology, Tumkur- 572106, in partial fulfilment for the award of Bachelor Of Engineering in Electronics & Communication Engineering of the Visvesvaraya Technological University, Jnana Sangama, Belagavi -590018, during the academic year 2021–2022. It is certified that all corrections/suggestions indicated for internal assessments have been incorporated in the report. The Mini Project report has been approved as it satisfies the academic requirement with respect to the Mini Project work prescribed for the said Bachelor of Engineering degree.

27/7/22

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ABSTRACT

In today's world there are many disabled persons who find it difficult to perform movements or perform daily activities. This types of persons are mainly dependent on others for their assistance. But they can becomes self-independent and perform some daily activities on their own with the help of assistance devices. The most widely used assistive devices are Wheelchairs. Wheelchairs is basically a chair fitted with wheels, which can help people move around who cannot walk because of illness, disability or injury. But there are many disabled people with weak limbs and joints who cannot move the wheelchair. Thus, Smart wheelchair can benefit a lot to them and everyone in society. Smart wheelchairs are electric powered wheelchairs with many extra components such as a computer and sensors which help the user or guardian accompanying wheelchair to handle it easily and efficiently. The recent development in the field of Artificial Intelligence, Senor Technologies and Robotics help the growth of wheelchairs with new features. This paper is to review the current state of art of Smart Wheelchairs and discuss the future research in this field by using the Arduino UNO, WIFI Modulator, Ultrasonic Senor etc.

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