VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", BELGAUM-590014

KARNATAKA

Project Report On:

"DESIGN OF INTELLIGENT SOLAR TRACKING ROBOT FOR SURVEILLANCE"

Submitted in partial fulfilment of the requirements of the award of degree

BACHELOR OF ENGINEERING

IN

ELECTRICAL & ELECTRONICS ENGINEERING

SUBMITTED BY:

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Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

his is to certify that the project work entitled **"DESIGN OF INTELLIGENT SOLAR TRACKER OBOT FOR SURVEILLANCE"** has been successfully carried out by NAZMEEN KHANUM M (SV19EE011) SULTANA KHANAM A (1SV19EE017) MALA G (1SV20EE400) SADDAM K (SV20EE404) the bonafide student of **SHRIDEVI INSTITUTE OF ENGINEERING AND ECHNOLOGY, TUMKUR-572106,** in partial fulfillment for the award of degree Bachelor of Engineering ELECTRICAL & ELECTRONICS ENGINEERING of the VISVESVARAYA TECHNOLOGICAL NIVERSITY JNANA SANGAMA, BELAGAVI-560014 during the year 2022-2023. All the corrections ggestions indicated for internal assessments have been incorporated in the report. The project work has en approved as it satisfies the academic requirements in respect to the technical seminar prescribed for the id Degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
Mrs. TANUJA K S M.E(Ph.D),MISTE	Mr. G H RAVIKUMAR M.Tech(Ph. D)	Dr. NARENDRA VISHWANATH(Ph. D)
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Name of the Examiners:

1. Syed Arefunnisa — Signature with date
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ABSTRACT

Surveillance is increasingly becoming one of the most important subjects when it comes to security. In this work I have aimed to design a portable, economically viable alternative to manual surveillance that can find application in both civilian and military sectors. In this paper I have attempted to utilize the solar power for operation of robot for surveillance with an intelligent feedback .As powering the robots for surveillance is difficult this project provides a solar powered mobile microcontroller based surveillance platform which is an amicable solution to the problem. The project involves a PIC microcontroller, digital compass, H-bridge drivers and a automatic solar tracker setup. The functioning of the solar tracking system is independent of the robot movement. The project can be used as a multipurpose surveillance platform in both household and war field applications

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