

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA NANGAMA", BELGAUM-590014
KARNATAKA



Project Report On:

**"DESIGN OF INTELLIGENT SOLAR TRACKING ROBOT FOR
SURVEILLANCE"**

Submitted in partial fulfillment of the requirements of the award of degree
BACHELOR OF ENGINEERING
IN
ELECTRICAL & ELECTRONICS ENGINEERING

SUBMITTED BY:

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2022-2023

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
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CERTIFICATE

It is to certify that the project work entitled "DESIGN OF INTELLIGENT SOLAR TRACKER ROBOT FOR SURVEILLANCE" has been successfully carried out by NAZMEEN KHANUM M (SV19EE011) SULTANA KHANAM A (ISV19EE017) MALA G (ISV20EE400) SADDAM K (SV20EE404) the bonafide student of SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR-572106, in partial fulfillment for the award of degree Bachelor of Engineering ELECTRICAL & ELECTRONICS ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY JNANA SANGAMA, BELAGAVI-560014 during the year 2022-2023. All the corrections suggestions indicated for internal assessments have been incorporated in the report. The project work has been approved as it satisfies the academic requirements in respect to the technical seminar prescribed for the said Degree.

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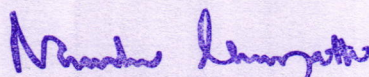
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ABSTRACT

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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