VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

BELAGAVI – 590 018

LINE FOLLOWER ROBOT

Submitted as microcontroller and embedded system assignment work

BY

SHASHIKIRAN	4AL21CS136
SHREEVANTH R BHANDARY	4AL21CS143
SHREYASH P S	4AL21CS147
SOORYA PRAKASH ACHARYA	4AL21CS152
SUDARSHAN SHETTY	4AL21CS159

Under the Guidance of

Mrs. Babitha Poojary & Mr. Abhijith L Kotian

Assistant Professor

ALVA'S
Education Foundation

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, MIJAR,
MOODBIDRI D.K. -574225 KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that, assignment work for the subject "Microcontroller and Embedded System (21CS42)" has been successfully completed and report submitted by Shashikiran (4AL21CS136), during the academic year 2022– 2023. It is certified that all corrections/suggestions indicated presentation session have been incorporated in the report and scored 10 Marks out of 10 and deposited in the departmental library.

Mrs. Babitha Poojary & Mr. Abhijith L Kotian

Assistant Professor

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY MIJAR, MOODBIDRI D.K. -574225 KARNATAKA

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Mrs. Babitha Poojary & Mr. Abhijith L Kotian

Assistant Professor

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY MIJAR,
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Mrs. Babitha Poojary & Mr. Abhijith L Kotian

Assistant Professor

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY MIJAR,
MOODBIDRI D.K. -574225 KARNATAKA

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This is to certify that, assignment work for the subject "Microcontroller and Embedded System (21CS42)" has been successfully completed and report submitted by Soorya Prakash Acharya (4AL21CS152), during the academic year 2022– 2023. It is certified that all corrections/suggestions indicated presentation session have been incorporated in the report and scored 10 Marks out of 10 and deposited in the departmental library.

Mrs. Babitha Poojary & Mr. Abhijith L Kotian
Assistant Professor

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY MIJAR,
MOODBIDRI D.K. -574225 KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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This is to certify that, assignment work for the subject "Microcontroller and Embedded System (21CS42)" has been successfully completed and report submitted by Sudarshan Shetty (4AL21CS159), during the academic year 2022– 2023. It is certified that all corrections/suggestions indicated presentation session have been incorporated in the report and scored 10 Marks out of 10 and deposited in the departmental library.

Mrs. Babitha Poojary & Mr. Abhijith L Kotian

Assistant Professor

MICROCONTROLLER AND EMBEDDED SYSTEM REPORT

LINEFOLLOWERROBOT

LINEFOLLOWERROBOT

Introduction:

A Robot is any machine which is completely automatic, i.e. it starts on its own, decides its own way of work and stops on its own. It is actually a replica of human beings, which has been designed to ease human burden. It can be controlled pneumatically or using hydraulic ways or using the simple electronic control ways. The first industrial robot was Unimates built by George Devol and Joe Engelberger in the late 50's and early 60's.

Any robot is built on 3 basic laws:

- A robot should not harm the human being directly or indirectly.
- A robot should obey human orders unless and until it violates the first law.
- A robot should protect its own existence provided the 1st two laws are not violated.

Line follower robot

A line follower robot is a robot which follows a certain path controlled by a feedback mechanism.

Building a basic line follower robot:

Building a basic Line Follower Robot involves the following steps.

- Designing the mechanical part or the body of the robot