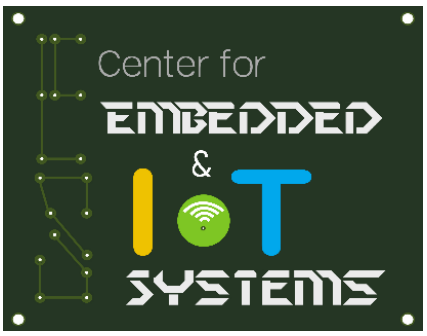
LINE FOLLOWING ROBOT



A project report submitted in partial fulfilment of requirement for the course

On

Smart System Design

By

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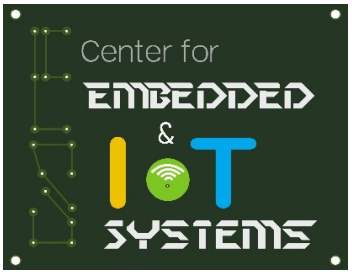

CERTIFICATE

This is to certify that the course project entitled "Line Following Robot" is the bonafide work carried out by SAMUDARALA PRATHIBHA (2203A51060) ,PAYILI LOKESH (2203A51056) ,DODA RISHIKA (2205A42004),PUDARI ABHIRAM (2205A42019), in the partial fulfillment of the requirement for the award of course Smart System Design during the academic year 2022-2023 under our guidance and Supervision.

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ABSTRACT

This project has been designed to build a Line following Robot using IR sensor to follow a designated path which is provided and runs over it. ROBOT has sufficient intelligence to cover the maximum area of space provided. It will move in a particular direction Specified by the user to navigate the robot through a black line marked on the white surface.The path can be visible like a black line on the white surface (or vice-versa) or it can be invisible like a magnetic field. Sensing a line and manoeuvrings the robot to stay on course while, constantly correcting wrong moves using feedback mechanism forms a simple yet effective closed loop system. The base of the developed robot is Arduino UNO R3 which is a microcontroller board based on the ATmega328 (datasheet).

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