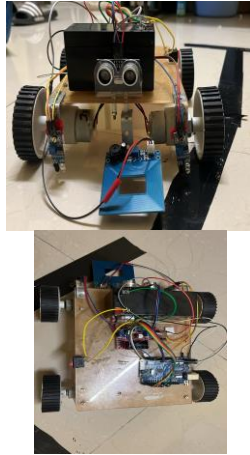




B.M.S COLLEGE OF ENGINEERING –560019

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Title:	Line Follower, Obstacle and Mine Detection Robot		
Student (Name, USN, Mobile No.)	Anushka Sethia	1BM22ET009	9460019795
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Guide	Dr. C Gururaj		
Venue	Department of Telecommunication, BMS College of Engineering, Bangalore - 560019		
Project Commencement Date	16 TH October,2024	Project Completion Date	18 th January ,2025
Abstract		Photographs	
<p>This project presents a versatile robotic navigation system using an Arduino Uno, integrating line following, obstacle avoidance, and mine detection for autonomous movement. IR sensors guide the robot along predefined paths, while ultrasonic sensors detect and avoid obstacles, ensuring seamless navigation. The system is a cost-effective solution for automation, robotics, and educational purposes, emphasizing sensor-based feedback for efficient control.</p> <p>The Arduino Uno serves as the central controller, converting digital and analog signals into motion. Additionally, Bluetooth technology allows flexible remote operation via smartphones, tablets, or laptops, offering reliable performance even through walls or other barriers.</p>			
Conclusion		We have developed an arduino based robot that detects line ,obstacle and mine	
Program Outcomes		Our project satisfied PO-1, PO-2,PO-3, PO-4, PO-7,PO-8,PO-9,PO-10,PO-11 and PO-12	

