Desh Deepak Verma

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Electronics and Communication Engineering
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GitHub Profile
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Education

•Sardar Vallabhbhai National Institute of Technology *2026*
B Tech - Electronics and Communications Technology CGPA: 8.20 (Sem III)

•Kendriya Vidyalaya no.2 Vadodara *2021*
Central Board of Secondary Education, Gujarat Percentage: 92.2

•Kendriya Vidyalaya no.5, Vadodara *2019*
Central Board of Secondary Education, Gujarat Percentage: 93.8

Personal Projects

•Web/PS3 controlled Holonomic Drive(OMNI-WEB DRIVE)

Build a robot with a custom chassis and 90-degree angled omni wheels for multi-directional movement

- Executed Arduino based inverse kinematics and motor control for precise manipulation of a 3 wheeled robot's omni-drive system.
- Incorporated a USB host shield to incorporate a PS3 controller, enhancing user control and experience
- Build a controller website using HTML and CSS to control the bot wirelessly through WIFI module in ESP32

•Google Winter of Code(MUDBERRY STUDIO)

Crafted an impressive website for a professional pottery studio - "Mudberry Studio"

- Implemented a navigation bar with essential links,designed to hide on scrolling forward, optimizing screen real estate.
- An interactive gallery page allowing visitors to explore and appreciate the art.
- Integrated 'Book Now' button that seamlessly redirects users to the studio's WhatsApp chat, prefilled with a message about the respective course

•Line Follower Robot

The robot successfully traces the whites path on black arena autonomously

- IR sensor array is being deployed and calibrated on the chassis of the robot where motors,motor drivers and Arduino are mounted.
- Designed algorithms for directions of bot as per different types of cross-paths. Logic is being developed on the basis of the data from the IR sensor array on Arduino IDE

•OLED Message Generator

User generates a message on OLED wirelessly

- Designed virtual keyboard to type the message using HTML
- Displaying text using Wifi module of ESP32 to generate the message wirelessly using Micro python

Technical Skills and Interests

Languages: C, C++, Python, JavaScript, Embedded C
Developer Tools: VsCode, Canva, Latex, MATLAB
Cloud/Databases: MySQL
Soft Skills: Commitment, Leadership, Teamwork, Decision Making, Time management
Coursework: Data Structures and Algorithms, Database Management System

Positions of Responsibility

•Co-Head, Cultural Affairs Council, SVNIT

•Coordinator, Academic Affairs Council, SVNIT

Achievements

•MindBend 2023 : Hunt The Line Competed with 20+ teams with Line following Bot *April'23*

•GWOC,SVNIT Amongst top 3 teams for crafting an impressive website for pottery studio *Dec'23-Jan'24*