

Vishal Singh

Electronic Communication Engineer

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CAREER OBJECTIVE

I'm incredibly apply my skills in embedded systems development, including firmware design, microcontroller programming, and hardware-software integration, to create innovative solutions. I aim to work with a dynamic team where I can use my expertise in real-time operating systems, sensor integration, and low-power designs to contribute to project success and grow as an embedded engineer.

Skills & Technology

- **Technical Skill:** Embedded System, Microcontroller 8051, Microprocessor 8086, 8085 Raspberry pi, Component Arm and Hardware Knowledge.
- **Protocols:** UART, SPI, I2C, CAN.
- **Language:** C, Embedded C, Assembly Language.
- **Operating System:** Windows, Linux.
- **Tools:** Visual Studio, Code Blocks, MS Office, Kile Vision 5, Proteus 8 Professional, Nuvoton ISP ICP

Experience & Internship

Latrics India Pvt. Ltd (Currently Working)

- Assisted in developing DGPS solutions for improved UAV positioning.
- Supported the design and testing of electronic circuits for quadcopters.
- Collaborated on integrating DGPS technology into navigation systems.
- Basic knowledge of electronics and DGPS technology & quadcopters Drone.
- Experience in quadcopter development, including design, assembly, and testing, showcasing a strong passion for UAV technology.
- Worked on battery systems for drones and licopters.

Acmegrade (March 2023-May 2023)

- **Embedded System:** Training on Embedded System with C
- **Project Title:** IOT BASE AUTOMATIC ROOM LIGHTING WITH BIDIRECTIONAL VISITOR COUNT.

Educational Qualification

Education	Passing Year	School/Collage	Board/ University	CGPA/ PERCENTAGE
B. Tech Electronic & Communication	2023	Siddhartha Institute of Technology & Science	JNTUH	6.5
Intermediate	2019	Narayana Junior College	TSIBE	75%
SSC	2017	Montessori High School	BSE	78%

Projects

Mini Project

- **Title** : PATH HOLE DETECTION & ALERT SYSTEM FOR VEHICLES
- **Team Size:** 03
- **Role** : Managing Team
- **Project Description:** In this project, our aim is to detect potholes in the path and alert the vehicle driver to avoid accidents. We are utilizing Basic Ultrasonic Sensors with Node MCU for this purpose.

Major Project

- **Title:** PASSWORD BASED DOOR LOCK SYSTEM USING 8051 MICROCONTROLLERS.
- **Team Size:** 03
- **Role:** Managing Team
- **Project Description:** The Password-Based Door Lock System with an 8051 Microcontroller restricts access to a door or gate by requiring users to input a specific password via a keypad. The 8051 microcontroller verifies the entered password against a stored one; if they match, a relay is activated to unlock the door. Access is denied if the passwords don't align. This project provides a simple yet effective way to control entry to restricted areas using password authentication.

Achievements

- Certified for yoga trainer by Patanjali Yog Peeth.
- I have won the price in kho-kho.
- I was awarded best student in school.

Strengths

- Hardworking and Sincere with positive attitude.
- The ability to learn and do whatever it takes to serve the Purpose.
- The ability to balance academics with extra and co-curricular activities.
- Quick Learner and patiently work through an area, for achieving desired results.

Hobbies

- Playing Cricket, Kho-Kho, Badminton, Chess etc.
- Watching Cricket, Movies.
- Listening Interviews.
- Travelling
- Writing Diary

Declarations

I hereby declare that the above-mentioned details are true to the best of my knowledge.

Name: - Vishal Singh