PARAMJOTH SINGH

Phone: +91-7842741117
Email: sardarparamjoth02@gmail.com
GitHub: https://github.com/paramjothsingh
LinkedIn: https://www.linkedin.com/in/paramjoth-singh-439800263

A highly organized and goal-oriented individual, I am actively pursuing a challenging role to expand and delve into my expertise while making a positive contribution to my personal development. Eager to embrace new challenges, I aim to leverage my skills in a dynamic environment that fosters continuous learning and growth.

EDUCATION

B.TECH | VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, Hyderabad | CGPA: 9.1 **2021 - 2025**

Obtained a comprehensive education in Electronics and Communication Engineering from VNR VJIET, renowned for its rigorous curriculum and industry-relevant coursework. Developed a strong foundation in core subjects, including analog and digital electronics, signal processing, and communication systems. Engaged in practical applications through hands-on projects, fostering problem-solving skills and a deep understanding of cutting-edge technologies in the field.

INTERMEDIATE | NARAYANA JUNIOUR COLLEGE , Hyderabad | PERCENTAGE: 98.6% **2019 - 2021**

Studied at Narayana junior college for my intermediate education, gaining a strong foundation in subjects pertinent to my academic pursuits. This institution is known for its rigorous academic curriculum and dedicated faculty, providing me with an environment conducive to learning and personal development.

SCHOOLING | ST THOMAS HIGH SCHOOL , NIRMAL | GPA:9.7 **2019**

Attended ST Thomas high School, where I received a comprehensive education that laid a strong foundation in various subjects. The rigorous academic environment fostered critical thinking and problem- solving skills, preparing me for higher education.

SKILLS

HTML, CSS, JAVASCRIPT, MATLAB, SIMULINK, VERILOG HDL, DATA STRUCTURES, PYHTON, JAVA, C , ARDUINO

COURSES AND CERTIFICATIONS

- *DEVELOP EMBEDDED SYSTEMS USING C ON AVR from Udemy*
- *IMAGE PROCESSING USING MATLAB from Pantech*
- *QR CODE GENERATOR USING JAVASCRIPT from udemy*
- *EMBEDDED C WITH AVR MICROCONTROLLERS from Udemy*
- *SELF PACED TRAINING COURSE ON MATHLAB ONRAMP from Mathworks*
- *SELF PACED TRAINING COURSE ON SIMULINK ONRAMP from Mathworks*

INTERESTS

- *Reading and Research: Demonstrates a commitment to continuous learning and staying updated on industry.*
- *Team Sports: Reflects a cooperative and collaborative nature, valuable in team-oriented work environments.*
- *Volunteer Work: Shows a commitment to giving back to the community and potentially highlights leadership and organizational skills.*
- *Learning Technology: Emphasizes a genuine interest and passion for technology, which can be attractive to tech- related positions.*

INDUSTRIAL VISIT

L&T Metro Depot

The L&T Metro Depot visit deepened my understanding of control systems and showcased practical applications in transportation. Hands-on experience with electronic components like sensors and microcontrollers provided valuable insights. Observing troubleshooting practices emphasized practical problem-solving in critical infrastructure. Appreciation for safety protocols and exposure to modern transportation electronics highlighted potential career opportunities in the field.

INTERNSHIPS

IMAGE PROCESSING INTERN | PANTECH

During my image processing internship, I mastered various concepts, including image preprocessing for enhanced quality and feature extraction for efficient analysis. I became proficient in segmentation algorithms, allowing the identification of specific objects within images. The application of deep learning techniques, particularly convolutional neural networks, strengthened my image classification and object detection skills. Additionally, I explored image registration methods vital for tasks like medical image analysis. Real-world applications, such as medical imaging and computer vision, provided practical insights, and I refined my ability to evaluate algorithm performance using metrics like precision and recall. The integration of image processing with technologies like IoT expanded my knowledge of diverse applications in the field.

PROJECTS

ASSISTIVE DEVICE FOR PHYSICALLY DISABLE PEOPLE [HEAD MOUSE]

TECHNOLOGY USED: *Arduino Micro, MPU-6050 (6-axis motion tracking device), Arduino IDE (for coding), HC-05(Bluetooth module).*

DESCRIPTION: *The head-controlled mouse system employs an Arduino Micro connected to an MPU-6050 sensor via I2C. The Arduino IDE and MPU-6050 library facilitate programming, while a USB cable connects the Arduino Micro to the computer, enabling mouse emulation using HID.*

Controlling volume through hand gestures using OpenCV in Python.

TECHNOLOGY USED: *Python.*

DESCRIPTION: *This project utilizes Python with the OpenCV library to control volume through hand gestures. The system captures real-time video input from a webcam, recognizes hand gestures, and adjusts the volume accordingly. It provides an interactive and hands-free approach to managing audio levels.*

Temperature Based Fan Speed Control & Monitoring With Arduino UNO

TECHNOLOGY USED: *Arduino Microcontroller, Temperature sensors, Fan control mechanism, Programming in Arduino IDE, Real-time monitoring system.*

DESCRIPTION: *The Temperature Based Fan Speed Control & Monitoring project uses Arduino to make a fan automatically go faster or slower based on the temperature. Sensors keep an eye on the temperature, making sure everything stays cool. It helps save energy and makes sure devices don't get too hot by adjusting the fan speed as needed. You can even set specific temperatures for when the fan should speed up or slow down using Arduino.*

HOBBIES

- *Editing*
- *Photography*
- *Chess*
- *BasketBall*
- *Youtuber*

PARTICIPATION/HACKATHONS/SEMINARS

- *Participated in a Workshop on PCB DESIGN AND APPLICATION DEVELOPMENT by Technotran.*
- *Participated in IoT SPRINT 2K22 Hackathon by IoT club of VNRVJIET.*
- *Attended a practical workshop on drone simulation and assembly hosted by Pavaman Aviation Private Limited.*
- *Participated in Smart India Hackathon (SIH).*

ROLES AND RESPONSIBILITIES /EVENTS CONDUCTED

- *As the Social Media Manager for the Art of Living club at VNR VJIET, I oversee and strategize online content, fostering engagement and amplifying the club's digital presence.*
- *Successfully orchestrated the "Fist Full of Rice" event in collaboration with the NSS Club, demonstrating effective organizational and leadership skills.*
- *Organized and facilitated campus events, including orientations, workshops, and seminars, contributing to a vibrant and engaged student community.*
- *Actively conducted and participated in Convergence and Ecificio.*

DECLARATION

I hereby declare that all the information provided above is true to the best of my knowledge.

DATE: