Harsh Kakadiya

- Marshkakadiya149@gmail.com
- in https://www.linkedin.com/in/harshkakadiya-04275119a/
- **** 8128757827
- **14/09/2001**



EDUCATION

Bachelor of Technology in Electrical Engineering,

Sardar Vallabhbhai National Institute of Technology 2019 – 2023

CGPA: 8.77

B. Tech (Minor) Degree in Electronics & Communication Engineering,

Sardar Vallabhbhai National Institute of Technology 2019 – 2023

CGPA: 8.33



SKILLS

Programming (C, Embedded C, Python, Verilog & Assembly level)

Circuit Designing & Simulation (MATLAB, Proteus, KiCAD, Atmel Studio, EasyEDA & LTspiceX)

Robotics and Embedded System (Robot Operating System (ROS), 8051, ATMega32, Arduino, Raspberry Pi & Sensor Interfacing, BMS, C8051F120)

Soft Skills (Critical thinking, Time Management, Quick Learner, Leadership & team building skills)

Excellent command on (Digital Electronics, Analog Electronics, Microcontroller, Computer Architecture)



POSITION OF RESPONSIBILITY

DRISHTI - A Revolutionary Concept, Treasurer 08/2020 - 05/2023

- Developed and mentored 10+ embedded system related projects.
- Managed finances of 35 projects and 5 events.
- Led a team of 150 members.

Mindbend, 2022, Head of Technical Committee 11/2021 - 04/2022

- Organized and managed 20+ technical events
- Led a team of 70 members.



PROFESSIONAL EXPERIENCE

Project Trainee, TVS Motor Company

05/2022 - 07/2022 | Hosur, India

- Project Name: Complete Design Validation & Proving of K06 Battery Pack
- Department: New Product Development BMW

Electronics Intern, Greenvolt Mobility LLP

06/2021 - 07/2021 | Ahmedabad, India

I worked on **embedded c** programming of motor controller TMS320F28027FPTT, **design analysis** of buck converter **LM5008**, and developing voltage indicator.



PROJECTS

Warfare Assistance Robot, Mentor Lead

11/2021 - 09/2022

- Developed an all-terrain autonomous robot aimed at assisting the Indian armed forces. It is capable of carrying out tasks like equipment transfer, shielding system, fire extinguishing, navigation, and area surveillance.
- Represented our college and won 2nd prize at Techexpo organized by IIT Guwahati.

Lower Limb Powered Exoskeleton, Electronics Lead 🔗

12/2020 - 03/2022

- Developed a brace suite containing support structures with mechanisms that help people suffering from lower body neuromuscular, autoimmune, or progressive dystrophy diseases by supporting the lower body and powering the motions with sensored control.
- Represented our college at Robofest 2.0 organized by GUJCOST and secured 2nd rank with total prize money of INR 3.5 L.
- Granted design patent and got featured in 3 different newspapers.

Fire Alarm System, Mentor Lead 🤌

03/2021 - 04/2021

Designed a fire alarm device using ATMega32
microcontroller, GSM Module, MQ2 gas sensor, and
bmp180 temperature sensor that can deliver a warning
SMS directly to our cell phones.

PUBLICATIONS

Reliability of Smart Grid Including Cyber Impact - A Case Study, IGI Global &

Artificial Neural Network Modelling for Short Term Load Forecasting, IEEE ♂

Analysis and Prevention of Denial of Service Attacks in Smart Grid using IoT, Springer €

Hourly Load Forecasting Using Sequence-to-Sequence LSTM based Deep Machine Learning Model, Springer €



ACHIEVEMENTS

- Published 4 research papers and 2 design patents.
- Cleared GATE (EE, EC), 2023 with AIR under 800.
- Cleared JEE Mains with AIR 5051 and JEE Advance with AIR 10860.
- Runner up at Robofest 2.0 and cleared the design stage in Robofest 3.0 under 2 different categories.