

NIKHITHAS

STUDENT PURSUING ELECTRONICS AND COMMUNICATION ENGINEERING

Mysuru, India | nikhitha.s132004@gmail.com | +91 9141028936 | [LinkedIn](#)

CAREER OBJECTIVE

Motivated and detail-oriented Engineer with a strong problem-solving, innovation, and teamwork foundation. Passionate about applying technical knowledge to develop efficient and impactful solutions and seeking an opportunity to contribute my design, analysis, and technology development skills to a dynamic and growth-oriented organization.

SKILLS

- **Languages** | C · C++ · Fundamentals of Python Programming.
- **Tools** | Cadence · Proteus 8 Professional · Keil uVision 5 · Google Colab
- Visual Studio Code · Matlab · Cisco Packet Tracer.
- **Technical Skills** | Digital Electronics · Basics of Analog Electronics · Embedded Systems
- Computer Networks · Data Structure and Algorithm. Cyber security
- **Soft Skills** | · Time management and team-building skills · A quick and passionate learner to rapidly acquire new skills and adapt to evolving challenges
- Communication and Leadership Skills.

EDUCATION

· Vidyavardhaka College of Engineering, Mysore, B.E in ECE	CGPA	9.57
· Marimallappa's PU College, Mysore 12 th	Percentage	94.33 %
· Vidya Jyothi Higher Primary School, Mysore 10 th	Percentage	91.68 %

PROJECTS

· Compact Nostril Air Filter for Air Pollution Protection (RespiraTech)

Developed a compact, reusable nostril air filter using medical-grade silicone and polypropylene to filter PM2.5 and PM10 particles. Designed for comfort, airflow, and eco-friendliness, it offers a discreet alternative to masks for pollution protection.

· Affordable Medical Device Development

Developed an ultrasound imaging device for real-time carotid artery monitoring, improving early diagnosis and preventive care. Utilized CAD tools for precise design and optimization. Designed for efficient, non-invasive diagnosis, advancing medical technology.

· Digital Locking System

Developed a password-based digital locking system using an Arduino Uno microcontroller. A keypad and servo motor are integrated for secure access control. Programmed in C/C++ using Arduino IDE for efficient operation.

AWARDS AND ACHIEVEMENTS

- "Samanvaya" - IEEE R10 Hackathon, Affordable Medical Device Development - Winners 01/10/2024
- Winners of AVINYA 2025 under the Health Care domain for developing a compact nostril air filter. 01/02/2025
- Participated in "Tinkathon", a project-based workshop and qualifier for the Residential Student Workshop (HTM). 01/09/2024
- Contingent Leader at IIT Bombay's E-Summit, where I led a team in various events and activities. 01/01/2025
- "C" Certificate holder in NCC. 2023 -2025
- Participated in the "Cyber Workshop" conducted by the IEEE Computer Society during Cyber Month, held on 9th & 10th October 2024.

PUBLICATIONS

Innovative Approaches in Lead Detection: Advancing Sustainable Water Management through Cyclic Voltammetry" Published in a peer-reviewed journal.

EXTRA CURRICULAR ACTIVITIES

- Attended Combined Annual Training Camp (CATC) at Hassan .01/2024
- Participated in Special NSS Camp organized by NSS unit VVCE at Hosur Ramanahalli. (Sep 2025)
- Annual Training Camp (ATC) at Karnataka Open State University. 02/2025