

Arjun Keshav Gudade

Nashik, Maharashtra

Phone: +91-9145382329 ✉ argudade1@gmail.com 🌐 <https://www.linkedin.com/in/arjun-gudade-24744525b>

EDUCATION

Sandip Institute And Technology And Research Centre Nashik <i>BE Electronics and Telecommunication - CGPA: 7.28</i>	10/2021 – 06/2025 <i>Nashik</i>
Vp College Vaijapur, Vaijapur <i>Higher Secondary Education (12th Science) - Percentage: 84.17%</i>	06/2020 – 06/2021 <i>vaijapur</i>
St. Joseph High School Malighogargaon, Malighogargaon <i>Secondary School Education (10th) - Percentage: 87.40%</i>	03/2018 – 05/2019 <i>tal -vaijapur</i>

COURSEWORK / SKILLS

-
- Data Structures
 - C/C++, Python
 - OOP Concepts

PROJECTS

1. Advanced Train Accidents Avoidance System Using LoRa and RFID Technology

- Developed a train collision avoidance system using LoRa (Long Range) communication and RFID-based track identification.
- Installed RFID tags on railway tracks to accurately identify location segments.
- Integrated LoRa modules for long-distance, low-power wireless communication between trains and ground stations.
- Designed microcontroller-based logic to trigger automatic braking in case of potential collision threats.
- Significantly improves railway safety and reduces dependence on human error through real-time monitoring and automation.

2. Microcontroller-Based Four Quadrant DC Motor Speed Control System

- Designed a control system using a microcontroller to operate a DC motor in all four quadrants: forward motoring, forward braking, reverse motoring, and reverse braking.
- Implemented Pulse Width Modulation (PWM) for variable speed control.
- Used H-bridge circuitry for safe and reliable direction switching.
- Achieved smooth and precise motion, suitable for applications in robotics, automation, and electric vehicles.
- Enhanced understanding of motor control logic, embedded systems, and real-time hardware interfacing.

INTERNSHIP

Certified Internship At Intern Pe IT Services And IT Consulting Approved By (AICTE) ,Jaipur ,Rajasthan (10/2024-12/2024).

TECHNICAL SKILLS

Languages: Basics Of C/C++, Python, SQL (BASIC), OOP Concept

Developer Tools: VS Code, Cisco Packet Tracer (Electronics simulation tool), MPLAB IDE (Electronics),
Microsoft Word, Power Point , Excel

Soft Skills : Good Communication , Team Work , Time Management

CERTIFICATIONS / ACHIEVEMENT

- Coursera Certified Course Presentations: So That People Listen, Organised By University Of California .
- Udemy – Python Mastery For Beginners By The Kiran Academy.
- C For Beginners By The Great Learning .
- Patent & Research: Filed a patent and published a research paper on the "Advanced Train Accident Avoidance System", leveraging LoRa, RFID, and automation for railway safety

PERSONAL PROFILE

- **Date of Birth:** 21-04-2003
- **Nationality:** Indian
- **Passport:** No
- **Languages Known:** English, Hindi, Marathi