



Aditya Salunke

Application Design Engineer

My Contact

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Skills

- Embedded C
- C++
- Microcontroller
- Data Structure
- Operating System

Languages

- English
- Hindi
- Marathi

Education Background

- PG Diploma in Embedded System
CDAC , Hyderabad Completed in 2022
- M.S.Bidve Engineering College,
Latur.
B.E Engineering Completed in 2020 |
Maharashtra, India.
- Vdf school of Polytechnic, Latur.
Diploma Completed in 2017 |
Maharashtra, India.
- Shri Venkatesh School, Latur.
Schooling
Completed in 2013

About Me

Application Design Engineer with 1.6 years of experience in embedded application development for railway systems. Expertise in real-time embedded programming, sensor interfacing, microcontroller-based system design, and railway safety standards. Strong debugging and optimization skills in industrial.

Professional Experience

Alstom Transport India Limited | Application design Engineer
Nov 2022 – Apr 2024.

Key responsibilities:

- Designed and developed firmware for embedded systems in C/C++ for industrial applications.
- Integrated sensors and communication protocols , SPI, I2C CAN with microcontrollers.
- Debugged hardware-software issues using JTAG, logic analyzers, oscilloscopes
- Optimized memory footprint and power consumption

Projects

Embedded Control System Development for Train Braking

- Developed real-time firmware for railway braking control application.
- Implemented PWM-controlled electro-pneumatic brake actuation mechanisms

Real-Time Data Acquisition System for Train Monitoring

- Designed embedded software for real-time data logging and fault diagnostics.
- Integrated multiple sensors and communication protocols for railway control systems.