

Abhijeet Roy

Hyderabad, Telangana, India. | Mob. No.: 8857855799 | Mail ID: aviroy1413@gmail.com

LinkedIn URL: <https://www.linkedin.com/in/Abhijeet-roy-1089921ab>

SUMMARY

Accomplished Embedded Development Professional with 2 years of experience in C/C++ programming and In-Vehicle Infotainment (IVI) systems. Specialized in designing, implementing, and debugging embedded software, consistently delivering high-performance solutions aligned with project objectives. Proficient in utilizing communication protocols such as UART, I2C, and SPI, and skilled in tools including Keil uVision, Proteus, and Visual Studio Code. A proactive collaborator and problem-solver, adept at streamlining complex systems and driving innovation in embedded technology.

WORK EXPERIENCE

Ielektron Technology Pvt. Ltd.

Designation: Engineer, Software

Location: Pune, Maharashtra, India.

Tenure: 12-Sep-2022 to 01-Mar-2024

Project: Regio-2 (Development of In-Vehicle Infotainment (IVI) Systems)

- As an engineer within the embedded department team,, I have been actively involved in the implementation and integration of (IVI) systems.
 - My primary focus lies on bug solving and writing specific part of the code, contributing to the seamless integration and optimal performance of IVI systems.
 - Worked for FORVIA (Client of Ielectron technology Pvt. Ltd) from 14-Nov-2022 to 31-Dec-2023 as a Embedded Software Engineer.
-

SKILLS

- **Programming Languages:** Proficient in C, C++, Embedded C, and Python, with experience in writing efficient, optimized code for embedded systems.
 - **Microcontroller Platforms:** Experienced in ARM Cortex-M series microcontrollers, including STM32, as well as ARM7 and 8051-based microcontrollers such as AT89C51, AT89S51, and AT89S52, with hands-on experience in bare-metal programming and system development.
 - **Protocols:** Expertise in UART, I2C, and SPI for device communication in embedded projects.
 - **Concepts:** Strong understanding of Data Structures and Algorithms, Object-Oriented Programming (OOP), advanced C programming techniques, and advanced C++ features including templates, STM, and exception handling.
 - **Tools and Platforms:** Skilled in using Keil uVision, Proteus, Visual Studio Code, Git, Jira, and GNU tools for development and debugging.
 - **Operating Systems:** Hands-on experience with Linux system programming, including Linux internals, for low-level system development.
 - **Core Strengths:** Adept at problem-solving and troubleshooting complex software and hardware issues.
-

EDUCATION

- Shree Sai College of Engineering and Technology, Chandrapur, Maharashtra 2020
BE – Electronic & Communication Engineering, CGPA – 8.9
 - Shree Sai Polytechnic, Chandrapur, Maharashtra 2017
Electronic & Telecommunication, Percentage-82%
 - Rajiv Gandhi College, Chandrapur, Maharashtra 2014
Science (CS), Percentage-52%
 - Hindi City High School, Chandrapur, Maharashtra 2012
Percentage-56%
-

CERTIFICATION

Vector India Pvt Ltd (Diploma Embedded Advance course) Hyderabad, India
Embedded Software Engineer 03/2022 to 09/2022
Project: Flexible Display Over Dot Matrix LED

PERSONAL DETAIL

- Home Town: Chandrapur (442401), Maharashtra
 - D.O.B: 08 / 04 / 1997
 - Gender: Male
 - Language: English, Hindi, Bengali, Marathi
-

PROJECT

- Digital Notice board (Degree-Final year project), Develop a versatile display system using a P10 LED Matrix and Arduino Nano, capable of showcasing both pre-defined and customizable text patterns, Offering dynamic and flexible content presentation.
 - Digital clock with alarm alert (Diploma Project), Develop a digital clock with alarm using AT89C51 Microcontroller and four 4x4 dot matrix displays, enabling time display (HH:MM) and buzzer-based Alarm alerts based on user-settable time inputs via push buttons.
-

DECLARATION

I hereby assure that the information furnished above is true to best of my knowledge.

Place:

Date: / /

Abhijeet Roy