

# AZIF NIZAM

## Embedded Software Developer

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## CAREER OBJECTIVE

To contribute to the development of advanced embedded systems that power modern technology, leveraging strong foundations in electronics and programming, and continually enhancing my expertise in hardware–software integration.

## SKILLS

- C | C++
- Git/Github version control
- ESP 32 microcontroller
- RTOS Basics
- Computer Networks Basics
- DSA
- Linux Commands
- Leadership
- Project management
- Team player

## EDUCATION

**Embedded Systems Course** *June 2025 – Jan 2026*

Emertxe Information Technologies, Bengaluru, Karnataka

**Bachelor of Technology (Electronics and Communication)** *2021 - 2025*

Amal Jyothi College of Engineering (Autonomous), Kottayam, Kerala

**CGPA 7.58/10**

*(Affiliated to APJ Abdul Kalam Technological University)*

**Class 10 + 2 - Central Board of Secondary Education** *2020 – 2021*

Bhavans vidya mandir, Pathanamthitta, Kerala

**CGPA 7.4/10**

## PROJECTS

**Arbitrary Precision Calculator** *November 2025*

- Developed a calculator capable of performing addition, subtraction, multiplication, and division on extremely large integers using custom doubly linked lists. Implemented digit-wise parsing, efficient list-based arithmetic algorithms, and a modular C architecture to ensure accuracy, performance, and scalability

**Mp3 Tag Reader For ID3v2.3** *November 2025*

- Developed a command-line MP3 tag editor that can view and edit metadata (title, artist, album, year, genre, comment) of MP3 files. Implemented file handling, binary data parsing, and modular programming to ensure maintainability and scalability.

**LSB Image Steganography** *October 2025*

- Developed a C-based application to securely hide and retrieve secret messages within BMP image files using least significant bit (LSB) manipulation. Implemented modular design with robust file handling, error checking, and command-line interface for encoding and decoding operations.

**Address Book Application in C** *September 2025*

- A simple command-line address book program where users can add, search, edit, delete, list, and save contacts

**L-S band Power Amplifier Integrated Antenna** *June 2024 – March 2025*

- Designed a class AB power amplifier and matched its output impedance with the input of a microstrip patch antenna and to integrate it. The IC is aimed to build a portable electromagnetic imaging device.

**Automated Traffic Alert System (ATAS)** *June 2023 – March 2024*

- Developed an Embedded device which enables vehicles on road to communicate each other about emergency vehicles. Implemented using ESP32 microcontroller and transmission and reception antennas.

## INTERNSHIP AND WORKSHOP

- **Internship** (2023): Reverttech IT Solutions-PCB Designing
- **Workshop** (2024): VLSI for beginners by NIELIT Ministry of Electronics and IT, Government of India
- **Workshop** (2023): Foundation of Electric and Hybrid Vehicles by Techmaghi and Tryst'24 IIT Delhi

## CERTIFICATION

- NPTEL (April 2024) - A brief introduction of micro sensors, IISER, Bhopal