

# AZIF NIZAM

## Electronics and Communication Engineer

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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
- RTOS Basics
- Computer Networks
- Linux Commands
- Leadership
- Project management
- Team player

## EDUCATION

### Embedded Systems

Emertxe Information Technologies, Bengaluru, Karnataka 2025

### Bachelor of Technology (Electronics and Communication)

Amal Jyothi College of Engineering (Autonomous), Kottayam, Kerala 2021 - 2025

(Affiliated to APJ Abdul Kalam Technological University) CGPA 7.58/10

### 12<sup>th</sup> grade - Central Board of Secondary Education

Bhavans vidya mandir, Pathanamthitta, Kerala 2020 – 2021

CGPA 7.4/10

### 10<sup>th</sup> grade - Central Board of Secondary Education

Bhavans vidya mandir, Pathanamthitta, Kerala 2018 – 2019

CGPA 9.02/10

## PROJECTS

### 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.

### Mp3 Tag Reader For ID3v2.3

*October 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.

### 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*

- The device which is equipped inside the vehicle alerts the driver about incoming emergency vehicles. The emergency vehicles can communicate with other public vehicles on road.

## 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

## ACHIEVEMENTS

- Young Innovators Program Kerala Development & Innovation Strategic Council (2023): Certificate of recognition