

AKHILA P

J P Nagar,
Bengaluru, Karnataka,
560078.

Mobile: [9744019587](tel:9744019587)
Email ID: akhilapottathil@gmail.com
LinkedIn: [linkedin.com/in/akhila-p-9224a430a/](https://www.linkedin.com/in/akhila-p-9224a430a/)
GitHub: <https://github.com/AKHILAP13>

CAREER OBJECTIVE

To excel in a dynamic, challenging professional environment, leveraging my skills and knowledge to tackle challenges, contributing to organizational goals, and embracing continuous learning to climb the career ladder and contribute to the company's success.

ACADEMIC CREDENTIALS

B.Tech in Electronics and Communication Engineering	Kottayam Institute of Technology & Science	2019-2023	APJ Abdul Kalam Technological University	93%
Higher Secondary Education	Jawahar Navodaya Vidyalaya, Malappuram	2017-2019	Central Board of Secondary Education	91.2%
SSLC	Jawahar Navodaya Vidyalaya, Malappuram	2016-2017	Central Board of Secondary Education	CGPA 10

PROJECTS

Underwater Wireless Data Transfer System - *Final Year Project | Kottayam Institute of Technology & Science (2023).*

➔ Hardware Used: ESP-32 | Software Used: Arduino IDE.

The project aims to develop underwater technology for reliable and efficient data transfer. The system consists of underwater transmitters, receivers, and signal-processing algorithms to ensure reliable and efficient data transfer.

Data Acquisition System using SPI, I2C, and UART Protocols - *Mini-Project | Vector India Pvt Ltd. (2024).*

➔ Hardware Used: LPC2129, MCP3204, DS1307 | Software Used: Keil uVision 5.

Implemented protocols such as UART, SPI, and I2C and A/D Converters to show various parameters of data collected from sensors onto a UART Terminal. The system uses the ARM-7 Based LPC2129 Microcontroller and its onboard peripherals.

Gas Leakage Detector with Auto Power Trip System- *Mini-Project | Kottayam Institute of Technology & Science (2022).*

➔ Hardware Used: ATmega328p | Software Used: Arduino IDE.

This project is designed to detect gas leaks in the environment. To prevent accidents, it will automatically disconnect the power supply when gas leaks are detected.

Bluetooth Home Automation System - *Mini-Project | Vector India Pvt Ltd. (2024).*

➔ Hardware Used: LPC2129, HC-05 | Software Used: Keil uVision 5, Serial Bluetooth Terminal.

The project aims to make a Bluetooth-controlled smart home automation setup. The project is implemented using the UART Peripherals on the LPC2129 interfaced with the HC-05 Bluetooth Module and uses UART Interrupts.

Implementation of Stack using Templates in C++ - *Mini-Project | Vector India Pvt Ltd. (2024).*

➔ Software Used: VI Editor.

Implementation of a custom Stack using C++ which provides generic and flexible stack applications with functions like push(), pop(), and display() and exceptions for Stack Overflow and Stack Underflow.

PROFESSIONAL TRAINING

Advanced Embedded Systems Training at Vector India Institute, Bangalore.

- During this course, I have learned about microcontrollers (LPC2129), hardware, software design, programming languages (C, C++, Embedded C, Python), Protocols (SPI, CAN, I2C, UART, TCP/IP), DSA, and Linux OS.
- I also completed one Main Project (**Data Acquisition System**) and several Mini Projects.

TECHNICAL SKILLS

- **Programming Languages Known:** C, Embedded C, C++, and Python.
- **Familiar Hardware:** LPC2129 ARM-7 Based Microcontroller, Arduino UNO, ESP32.
- **Familiar Protocols:** UART, SPI, I2C, CAN.
- **Operating Systems:** Windows, Linux.
- **Known Software:** Keil uVision 5, GCC, Proteus, Arduino IDE.
- **Other Technical Skills:** Knowledge of Data Structures in C, TCP/IP Concepts and Socket Programming, Knowledge of OS Concepts (Processes, IPCs, Threads), Working knowledge of Microsoft Office.

SOFT SKILLS

- Self-Motivated.
- Team Work and Time Management Skills.
- Problem-Solving Skills.

ACHIEVEMENTS AND ACTIVITIES

- Qualified Jawahar Navodaya Vidyalaya Entrance Examination.
- Volunteered for multiple events in the intercollege technical fest CELESTE 2K22.

LANGUAGES KNOWN

- **English** (R/S/W)
- **Malayalam** (R/S/W)
- **Hindi** (R/S/W)
- **Tamil** (S)

PERSONAL INFORMATION

Date of Birth: 13th December 2001

Nationality: Indian

Permanent Address: Pottathil(H), Painkannur (P.O), Malappuram (DST) Kerala, 679571.

DECLARATION

"I, **Akhila P**, affirm that the information provided in this resume is accurate and truthful to the best of my knowledge and am committed to upholding honesty and integrity in all aspects of my professional endeavors".

Place: Bangalore

Akhila P