

## HARIPRASAD P

Chirayinkeezhu, Kerala, India

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## PROFESSIONAL SUMMARY

Electronics Engineering graduate with hands-on experience in production systems, embedded automation, and data-driven dashboards. Skilled in Python, Streamlit, Tableau, and microcontroller programming. Currently completing a Data Science & Generative AI upskilling program at Boston Institute of Analytics. Seeking a hybrid role in the UAE that blends electronics, data analytics, and AI innovation.

## CORE SKILLS

Electronics: Circuit Design, PCB Testing, Embedded Systems, IoT Integration

Programming: Python, C, Arduino, Microcontroller Programming

Analytics: pandas, matplotlib, seaborn, plotly, Excel (Advanced), Tableau

Dashboarding: Streamlit, Tkinter, Power BI

AI & ML: Generative AI, Regression, Classification, Time-Series Analysis

Soft Skills: Troubleshooting, Collaboration, Documentation, Adaptability

### Technical Skills

- Embedded Systems (Arduino, ESP32, Raspberry Pi)
- Programming: Python, C
- PCB Design & Testing
- Sensor Integration & Automation Logic
- IoT Protocols (MQTT, HTTP)

### Data & AI Tools

- ML Pipeline Design
- Generative AI Concepts
- Dashboarding & Data Analytics
- Cloud Basics (AWS/GCP – beginner level)

## EDUCATION

Diploma in Electronics Engineering

Govt. Polytechnic College, Kerala | 2021–2024 | CGPA: 7.55

Plus Two (Bio Science)

Higher Secondary Education, Kerala | 2021 | Score: 1060 / 1200 (88.33%)

## PROFESSIONAL EXPERIENCE

Production Trainee

SFO Technologies, Ernakulam | April 2024 – April 2025

- Supported PCB assembly, testing, and quality control in a high-volume production line
- Documented production metrics and assisted in process optimization

- Collaborated with engineering teams to troubleshoot hardware and system issues

## **PROJECTS**

### **Intelligent Solar Panel Cleaning System**

#### **Designer & Developer**

- Developed an automated system to maintain solar panel efficiency by detecting underexposure
- Compared ambient light with panel voltage to trigger blower or water-wiper mechanisms
- Used Arduino Nano, sensors, relays, and actuators to execute cleaning logic and display fault status
- Enhanced energy yield and reduced manual maintenance in large-scale installations

## **SEMINAR PRESENTATION**

### **Microcontroller-Based Automatic Braking System**

#### **Govt. Polytechnic College, Kerala | 2023**

- Presented an embedded safety system using AT89S52 microcontroller, ultrasonic sensor, and IR module
- Explained obstacle detection and automatic braking logic using real-time sensor feedback
- Highlighted applications in autonomous vehicles and smart mobility systems

## **NATIONAL CADET CORPS (NCC)**

- Attended Ek Bharat Shreshtha Bharat National Integration Camp at Daman and Diu
- Achieved 'A' Grade in NCC 'C' Certificate Examination
- Held rank of Company Sergeant Major (CSM), leading cadet formations and mentoring juniors
- Strengthened leadership, discipline, and cross-cultural collaboration

## **CERTIFICATIONS**

- Diploma in Computer Application – Kerala University (Jan 2023)  
First Class; covered MS Office, internet applications, basic programming
- Data Science & Generative AI Upskilling Program – Boston Institute of Analytics (May–Aug 2025)
- Python for Data Analysis – Coursera
- Tableau Fundamentals – Udemy

## **LANGUAGES**

English (Fluent) | Malayalam (Native) | Hindi (Proficient)