Krishna Dev K

Electronics & Communication Engineering Student

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Summary

Aspiring Electronics & Communication Engineer with strong proficiency in embedded systems, IoT, and AI-powered automation. Experienced in Python programming, microcontroller development, and computer vision using OpenCV. Passionate about integrating hardware and software to solve real-world problems through innovation and scalable design.

Objective

Seeking an internship in embedded systems or AI development, where I can apply my experience in microcontroller integration, Python programming, and real-time automation to contribute to impactful technical solutions.

Skills

Languages	Python, C, Git/GitHub
Embedded Systems	Arduino, Raspberry Pi, Sensor Fusion
AI & CV Tools	OpenCV, NumPy, TensorFlow (basic)
Hardware	Circuit Design, PCB Debugging, VLSI Fundamentals
Protocols	Serial Communication (I2C, SPI, UART), MQTT (basic)

Personal Traits

Work Ethic	Proactive, Responsible, Ethical
Team Skills	Collaborative, Clear Communicator
Learning Style	Adaptable, Quick Learner

Education

Government Engineering College, Wayanad — *Kerala, India*

B.Tech in Electronics & Communication Engineering — *2021 – 2025*

Affiliated with APJ Abdul Kalam Technological University

Guruvayur Devaswom English Medium School — *Kerala, India*

Plus Two (CBSE) — *2020 – 2021*

Projects

Smart AI-Powered Security Camera

- Built a multifunctional surveillance system using Raspberry Pi and OpenCV
- Integrated face detection, fire detection, animal intrusion, and number plate recognition
- Delivered real-time alerts via Telegram for IoT-based smart monitoring

Snake Game with Pygame

- Developed a browser-deployable snake game using Pygame and Pygbag
- Refined animations and game mechanics with a minimalist graphics approach
- Troubleshot deployment issues for compatibility with web environments

Home Automation Using Arduino

- Created an automated lighting system with Arduino UNO and PIR sensors
- Enabled motion-based lighting control to optimize power usage

Certifications

Techmaghi & Science and Technology Council, IIT (BHU) Varanasi *Online Webinar*

Career Guidance in Electric Vehicle Sector *May 2022*

- Gained insights into innovations and career paths in the EV industry

G-BOT, Government Engineering College Wayanad *Wayanad, Kerala*

Introduction to Robotics Workshop *14–15 May 2022*

- Participated in a hands-on robotics workshop focused on mechanical systems and control logic

Python + OpenCV

OpenCV Mini-Course (Self-Guided) *2023*

- Applied OpenCV for face and object detection in personal projects
- Explored image preprocessing, contour detection, and basic CV pipelines

Coursework

AI Foundations	Neural networks, image classification, OpenCV basics
Embedded Systems	Arduino, Raspberry Pi, IoT integration
Software Development	Python, version control (Git), game engines (Pygame)