

KEERTHANA P

Electronics & Communication Engineer | Embedded Systems Developer

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CAREER OBJECTIVE

Result-oriented Electronics and Communication Engineering student with a strong academic record (CGPA: 8.77) and hands-on experience in data analytics, embedded systems, IoT development, and full stack web development. Seeking a challenging role in a reputed organization where I can apply my technical expertise, analytical mindset, and passion for innovation to deliver impactful solutions and grow as a professional.

EDUCATION

B.E. Electronics & Communication Engineering | CGPA: 8.77 2023 – 2027

Dhanalakshmi Srinivasan Engineering College, Perambalur | Anna University Affiliated

HSC (Class XII) | 79% 2023

Shri Ram Matriculation Higher Secondary School, Madurai

SSLC (Class X) | 90% 2021

Shri Ram Matriculation Higher Secondary School, Madurai

ACHIEVEMENTS & RECOGNITION

Nimirdhu Nil Hackathon – SELECTED

Submitted idea: "Portable Underground Life Detector for Landslide and Disaster Rescue" — Selected among competitive entries.

HERTZ '24 – Academic Topper (3rd Rank)

Awarded a shield for securing 3rd rank in Academics on HERTZ '24 program conducted by Dhanalakshmi Srinivasan Engineering College.

Learnathon – 8 Courses Completed

Successfully completed 8 courses on the Learnathon platform, demonstrating continuous self-learning commitment.

TECHNICAL SKILLS

Languages: Python, C, HTML, CSS, JavaScript

Embedded Systems: Arduino, Sensors

Tools: VS Code, GitHub, Vercel, Excel

Web: Frontend Development, Full Stack

Others: AI/ML Concepts, Android Development

PROJECTS

Smart Healthcare Monitoring System | Frontend Development

- Developed a responsive, real-time dashboard to monitor and display patient vital signs including heart rate, temperature, and SpO2.
- Built with HTML, CSS, and JavaScript; deployed on Vercel with source code managed on GitHub.

Railway Collision Dashboard | Frontend Development

- Designed an interactive web dashboard to visualize live and historical railway collision data with color-coded alert indicators.
- Focused on clean UI/UX for rapid situational awareness; deployed on Vercel.

Smart Weather Monitoring System | Embedded Systems

- Built an IoT-based weather station using Arduino and environmental sensors to measure temperature, humidity, and atmospheric pressure in real-time.
- Integrated sensor data with a frontend display interface for continuous monitoring and logging.

Railway Collision Detection System | Embedded Systems

- Designed an Arduino-based IoT system using proximity and vibration sensors to detect potential railway collisions and trigger real-time alerts.
- Implemented threshold-based logic for early warning, improving safety response time.

Study Planner Dashboard | Excel + Python

- Created a productivity tracker using Python and Excel to organize, schedule, and analyze study plans with automated progress reporting.
- Automated data entry and visual reporting with Python scripts, reducing manual planning effort significantly.

INTERNSHIPS

SkillCraft Technology | Data Analyst Intern

- Analyzing data and deriving insights using Python and Excel; working on structured data analysis tasks with professional documentation and reporting.

Microchip Embedded System Developer | Microchip | EduSkills

- Gained expertise in embedded systems design and firmware development using Microchip architecture.

Google Android Developer | Google for Developers | EduSkills

- Built Android applications applying core development practices and Google developer tools.

Industrial Automation | EduSkills

- Explored automation concepts, PLC programming, and control systems in industrial settings.

Zscaler Zero Trust Cloud Security | Zscaler | EduSkills

- Studied zero trust security architecture, cloud security fundamentals, and cybersecurity best practices.

Marketing Intern | Muskurahat Foundation | Internshala

- Assisted in digital marketing campaigns and social media content creation for a non-profit organization.

CERTIFICATIONS

- NPTEL – Enhancing Soft Skills and Personality (Elite)
- NPTEL – Introduction to Internet of Things (Elite + Silver)
- NPTEL – Ethics Review of Health Research
- GUVI – Python Programming Course
- NIELIT – Embedded Systems for Beginners
- Learnathon – 8 Courses Completed

PORTFOLIO & LINKS

GitHub: <https://github.com/Keerthana1207-coder>

LinkedIn: www.linkedin.com/in/keerthana-p-ece

Portfolio: <https://keerthanap-portfolio.vercel.app/>

DECLARATION

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief. I take full responsibility for the correctness of the above-mentioned particulars.

Place:

Date:

(KEERTHANA P)