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## PRASANNA KRISHNAN

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### CAREER OBJECTIVE

Motivated and detail-oriented Engineering graduate with a strong foundation in **backend development, embedded systems**, and hardware–software integration. Skilled in programming using **Python, C, Embedded C, and Java**. Seeking an entry-level opportunity to contribute to software and embedded solutions while continuously learning and growing as a fresher.

### TECHNICAL SKILLS

- **Programming:** Python, C, Embedded C, Java
- **Core Skills:** Backend Development, Microcontroller Programming, Debugging, Troubleshooting, OOP, DSA
- **Database:** SQL
- **Tools:** Arduino, Proteus Simulation Platform, Git/GitHub
- **Concepts:** Sensor Interfacing, Serial Communication, Wireless Communication, Hardware–Software Integration, SDLC

### PROJECTS

#### Compact Multi-Band Antenna for ICP Monitoring

- Designed a compact antenna for medical devices that monitor a patient's brain pressure (Intracranial Pressure – ICP).
- Helps doctors identify abnormal pressure levels early for safer patient monitoring.
- Improved signal clarity, stability, and ensured safe operation for continuous use.

#### Traffic Signal Alert System (Team Lead)

- Developed an automatic traffic alert system using Arduino and sensors.
- Implemented control logic in Embedded C for real-time alert response.
- Enhanced road safety using reliable embedded automation.

## EDUCATION

### **Bachelor of Engineering – Electronics and Communication Engineering**

Kalaighnar Karunanidhi Institute of Technology | 2021–2025 | GPA: 8.79 / 10

HSC – Gandhi MHSS | 2021 | 77%

SSLC – Gandhi MHSS | 2019 | 68%

## INTERNSHIPS & WORKSHOPS

- **Internship** – Prime Solutions: Gained hands-on experience in full stack web development using modern web technologies.
- **Workshop** – Embedded Systems with Arduino: Sensor interfacing and control logic.

## CERTIFICATIONS & ACHIEVEMENTS

- **Python & AI** – Infosys Springboard
- **Google Analytics** for Beginners – Google
- **IoT Communication** – Coursera
- Presented academic projects at technical symposiums

## LANGUAGES

- English
- Tamil