KARTHIKEYAN PA

Chennai • 8939412755 • paakarthikeyan@gmail.com • www.linkedin.com/in/karthi-keyan-pa

SUMMARY

Enthusiastic and motivated graduate eager to apply my skills, knowledge, and problem-solving abilities to drive organizational growth. Committed to continuous learning, adaptability, and innovation to achieve long-term success.

SKILLS

- **ProgrammingLanguages:**C,Embedded C
- **Microcontrollers:**STM32 Cortax M4,ESP32
- **Protocols:**UART,I2C,SPI,CAN
- **Tool & OS:**linux,Proteus,STM32cubeIDE(Baremetal&HAL),VSCode,Arduino IDE

EDUCATION

Sree Sastha Institute of Engineering and Technology   2021-2025
- BE Electronics and Communication Engineering
- CGPA8.11

EXPERIENCE

ISRO – SHAR (SDSC), Satish Dhawan Space Centre – Project Intern   AUG2024-DEC2024

Designed and simulated advanced modulation techniques in MATLAB for satellite communication, optimizing signal transmission and performance while analyzing channel impacts. Collaborated with ISRO experts to align outcomes with real-world communication standards.

TI Clean Mobility Pvt. Ltd. – Internship   JUL2023

Gained hands-on experience in sensor applications for electric vehicles and industrial systems, learning about different sensor types used for monitoring and optimizing EV and industry performance.

Chase Technologies –Internship   AUG2022

Explored IoT fundamentals using Arduino Uno with hands-on experience in real-time sensor data collection. Designed and simulated IoT-based applications with TinkerCAD and Arduino IDE.

PROJECTS

Fingerprint and Voice Assist Electronic Voting System for Blind

Devloped an accessible electronic voting system integrating fingerprint authentication and voice assistance to empower visually impaired individuals to vote independently and securely.

Modulation Scheme in Satellite Communication Systems – Project

Developed and analyzed analog and digital modulation schemes at ISRO using MATLAB, simulating SNR vs BER to optimize signal transmission efficiency.

CERTIFICATION & TRAINING

- Embedded Systems Training(Pumo Technovation)   (Ongoing)2025
- EmployabilitySkillsDevelopmentAptitudeandCommunication(CareerSchools)   FEB2025
- Project Intern (ISRO, SHAR (SDSC), Satish Dhawan Space Centre)   DEC2024