KARTHIK S

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EDUCATION

Thanthai Periyar Government Institute of Technology   October 2020 - June 2024
Bachelor of Engineering in Electronics and Communication Engineering (CGPA of 7.87)   *Vellore, Tamilnadu*

Government Higher Secondary School   June 2019 - June 2020
HSC (75%)   *Vengarai Kottaikadu, Tamilnadu*

Government Higher Secondary School   June 2017 - June 2018
SSLC (89%)   *Vengarai Kottaikadu, Tamilnadu*

PROFESSIONAL SKILLS

Programming Languages: Python, C , HTML/CSS , JavaScript
Libraries and Tools: Node JS, Express JS, React JS
Others: MySql

TECHNICAL SKILLS

- **Firmware Development using C for microcontrollers, MPLAB ,Arduino , STM32F103 and ESP82**
- **Simulation using Proteus**
- **Communication Protocol: UART**
- **Hardware interfaces such as LCDs,ADC ,PWM ,Sensors**
- **IoT Web-plotform: FireBase ,Thingspeak ,Blynk**
- **Basic Knowledge about Electrical And Electronics**

INTERSHIP

Industrial Embedded with AI and IoT Internship   July 2023 – August 2023
National Small Industries Corporation   *Chennai, Tamilnadu*

- Collaborated on cutting-edge AI and IoT projects, enhancing industrial automation and data-driven decision-making. Contributed to the development and integration of embedded systems, optimized equipment maintenance through AI algorithms, and deployed IoT solutions for real-time monitoring, improving operational efficiency.

Python Programming Basic   July 2023 – August 2023
Pantech E learning PVT LTD   *Chennai, Tamilnadu*

- Contributed to Python programming projects at Pantech, collaborating on software development, optimization, and problem-solving. Gained proficiency in Python, [Mechine Learning Basics And Data Science Basics], and played a role in delivering effective solutions.

Embedded firmware Development Using PIC MicroController   Nov 2023
Argyn Technologies   *Online Mode*

- Proficient in developing embedded firmware using PIC microcontrollers, employing both assembly language and C programming.Experienced in utilizing MPLAB IDE for firmware development, debugging, and programming.Skilled in low-level peripheral interfacing, such as ADC, UART, SPI, I2C, PWM, and timers..

PROJECTS

- **Smart billing system for water Suppliers** | *Embedded C, IOT , NodeRed* | Wokwi
- **A Cloud Based Smart Parking System Using Iot Technology** | *Embedded C, IOT , Blynk, STM32* |
- **Employee Management System** | *HTML/CSS, Node JS, MySQL* | https://github.com/Karthik-Saravanan-10
- **Tic-Tac-Toe** | *Python* | https://github.com/Karthik-Saravanan-10
- **Rock Paper Scissor** | *HTML/CSS, JavaScript* | https://github.com/Karthik-Saravanan-10 -

LANGUAGES

- **Tamil**
- **English**