Tarun Karrthick R S

Embedded Developer

Profiles

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Summary

Embedded Systems Engineer with hands-on experience in microcontroller programming, real-time systems, and hardware-software integration. Seeking a challenging role to contribute to innovative projects and leverage my expertise in system design and development

Experience

Intern, MSME Technology Development Centre

June 2024

Embedded Systems

Coimbatore

- Gained hands-on experience with microcontrollers such as PIC, focusing on embedded systems design and development
- Developed firmware using MPLAB IDE for real-time control applications, including debugging and code optimization

Intern, Salzer Electronics

July 2024

Quality Control

Coimbatore

- Observed quality control processes for switch and wire harness testing. Contributed to quality assurance documentation and analysis.
- Assisted in monitoring machine loops and three-phase transformers using diagnostic tools to ensure compliance with quality standards

Projects

Self Balancing robot

May 2024

Embedded Systems

• "Designed and built a self-balancing robot using PID control algorithms, implemented with MPU6050 sensor and programmed in C++.

IoT-based Home Automation

September 2024

Sinric Pro, Google Home, Alexa

• Created a user-friendly interface for device management and monitoring using MQTT protocol, NodeMCU, and integration with Google Home and Alexa

Fantasy Sports Platform

August 2024

MERN Stack

- Implemented user authentication, team selection, and real-time updates.
- Designed responsive UI/UX and integrated with third-party APIs for sports data.

Skills

Embedded Systems Design

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Programming

Microcontroller

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Software Development

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IoT

Development,

Hardware interfacing

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Programming Languages

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C++, MERN, JAVA, JavaScript, SQL, HTML, CSS Tools Used and IDEs

and Debugging

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MPLAB, Arduino
IDE, VS Code,
Proteus,
Oscilloscopes,
Multimeters, Vs
code, render,
versal

Education

Sri Krishna College of Engineering and Technology

Electronics and Communication

Engineering

8.51 CGPA

September 2022 - present Bachelor of Engineering

Keartiman Matriculation Higher Secondary School

2021-2022

12th - 93.16%

Certifications

Tech Web Development using html and Css

Infosys Springboard

Java for BeginnersInfosys SpringBoard

Building your Leadership skills Coursera

Enhancing soft skills and personality
Nptel

Ethics in Engineering practice
Nptel

Languages

English
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Tamil

