

Preetham S N

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PROFILE

Highly motivated and detail-oriented Electrical and Electronics Engineering professional with a solid foundation in circuit design, system analysis, and embedded systems and programming. Skilled in software development, testing, and problem-solving with hands-on experience working with various tools and technologies. Eager to apply my technical knowledge and contribute to innovative projects in a dynamic and growth-oriented environment.

EDUCATION

Under Graduation

P.E.S College of Engineering

Board: Visvesvaraya Technological University |

B.E in Electrical and Electronics Engineering | CGPA: 6.92

2020 - 2024

Mandya, India

Pre-University

Shree Raghavendra Gurukula Vidyapeeta

Board: KSEEB | Subjects: PCMB | Percentage: 94%

2018 - 2020

Mysore, India

Secondary School

Adharsha Vidyalaya R.M.S.A.

Board: KSEEB | Percentage: 88.7%

2017 - 2018

Gundlupete, India

SKILLS

Programming Languages

C, C++, Embedded C, Python, HTML, CSS

Tools

Electrical AutoCAD, MATLAB & Simulink,
LabVIEW, GCC Compiler, Keil μ Vision

Communication Protocols

UART, SPI, I2C, CAN

PROJECTS

Advanced Ultrasonic Proximity Detection and Reverse Parking Assistance System

May 2025-May-2025

To create a system that detects obstacles while reversing a vehicle and provides visual and audio feedback. This project implements a reverse parking assistance system using the HC- SR04 ultrasonic sensor module and the CAN (Controller Area Network) protocol on an ARM-7- based LPC2129 microcontroller board.

Automotive ECU Communication System Using CAN Protocol

June 2025- June 2025

This project is all about implementation of CAN protocol in Embedded System there are two controllers through which we can manipulate sensors and fetch data. One of the micro controller acts as master and other act as a slave controlling the small systems like indicators, headlight, mirrors, door indicators.

Modeling and Implementation of Exact Linearization Technique for PV Microgrid System

Feb 2024 –May 2024

A pivotal element of my final year Bachelor of Engineering curriculum, this project centers on developing a microgrid system using solar PV as the energy source, employing a SEPIC (Single-Ended Primary-Inductor Converter) for DC-DC voltage conversion to efficiently store energy in a battery, while managing the interconnection of loads and various energy sources with a focus on non-isolated and isolated power converters.

INTERNSHIP & WORKSHOP

Full Stack Java Web Development Intern

Jan 2024 – Mar 2024
Mysore, India

Ideonix Solutions

Completed an 8-week internship focused on Full Stack Java Web Application Development, where I worked closely with the technical team to develop and enhance web applications using Java and relevant frameworks, gaining hands-on experience in web technologies and industry best practices, while demonstrating a strong work ethic, rapid learning ability, and technical competence.

PLC-SCADA Workshop

Aug 2023 -Nov 2023
Mandya, India

Attended a hands-on workshop on **PLC and SCADA systems** focused on industrial automation, real-time monitoring, and control. Gained practical experience in programming PLCs, designing ladder logic, and using SCADA interfaces for system supervision and data acquisition.

CERTIFICATION

Embedded Systems

Nov 2024 - present
Bangalore, India

Vector India

Currently pursuing a course on **Embedded Systems**, focusing on **C** and **C++** programming, microcontrollers, and **RTOS**. Gaining hands-on experience in integrating systems with **Linux** platforms. Working with tools like **Keil µVision** and **Proteus** for system design and testing. Developing skills in debugging, real-time data processing, and energy-efficient hardware-software integration.

Soft Skill Development

Apr 2024 - May 2024

NPTEL

Completed an NPTEL course on **Soft Skill Development**. Learned essential workplace skills like communication, teamwork, and time management. Improved professional behaviour and interpersonal effectiveness for real-world environments.

AREA OF INTEREST

- Embedded System Design and Development.
- C Programming and Microcontroller Programming (e.g., ARM, AVR, PIC).