

PEDIREDLA GANESH

India

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SUMMARY

Dynamic and detail-oriented Electronics and Communication Engineering (ECE) graduate with extensive experience in both hardware and software domains. Proficient in VLSI design, embedded systems, Internet of Things (IoT), and PCB design, alongside a robust background in full-stack web development, databases, data visualization and processing (DAVP), Python, and Java. Demonstrates a strong ability to develop innovative solutions, integrate complex systems, and deliver high-quality products. Adept at leveraging technical expertise to drive project success and exceed performance goals. Skilled in troubleshooting and debugging systems, developing automation solutions, and deploying them in production. Seeking a position at hardware or software companies to utilize my knowledge and expertise in the development of innovative and reliable embedded systems.

EXPERIENCE

➤ Hardware Interns :

Maven Silicon ->VLSI System On Chip Design

Oct 2023 - Present, Bengaluru, Karnataka

- Completed an intensive VLSI training program covering topics such as Verilog, VHDL, ASIC design flow, RTL coding, and verification methodologies.
- Developed skills in digital design, RTL coding, simulation, and synthesis using industry-standard EDA tools.

Emertxe ->VLSI Design

Feb 2023 - Present, Bengaluru, Karnataka

- During this VLSI training program covering topics such as Verilog, VHDL, ASIC design flow, RTL coding, and verification methodologies.
- Created RTL designs using Verilog, focusing on high-speed and low-power requirements.
- Performed synthesis, place-and-route, and timing analysis using Synopsys Design Compiler.

DIHO Robotics -> Obstacle Avoidance Robot Workshop.

Jan 2024 - Present, Chennai, Tamil Nadu

- Participated in a comprehensive workshop focused on the design and implementation of obstacle avoidance robots.
- Collaborated with mentors and industry experts to solve real-world design challenges and enhance technical proficiency.

➤ Software Interns :

Slash Mark ->Python

Jan15th-Apr15th / 2024 - Present, New Delhi

- I have Completed an intensive Python internship program during (Jan15th-Apr15th), covering topics such as Read datasets, data Analysis , Automation and Web scraping.

CodeTech IT Solutions ->Web Development

Jan 2024 - Present, Hyderabad

- Completed an internship program of Web Development during (Jan15th-Feb15th), covering topics such as HTML, CSS, JS and Databases like My SQL, XAMPP.

PROJECTS

Hardware :

★ Agriculture Monitoring System Using UV Light

Internet Of Things (Electronics)

- Designed and implemented an integrated agriculture monitoring system aimed at optimizing crop yield and resource utilization.
- Developed a comprehensive system capable of monitoring key parameters crucial for agriculture, including humidity, temperature, soil moisture, rainfall, and presence detection via PIR sensors.

★ Designing High - speed PCB

PCB(Printed Circuit Board)Design

- Designed and implemented a PCB for a 555 timer-based circuit, demonstrating proficiency in PCB design and electronic circuit fundamentals.
- Developed the PCB layout using industry-standard software (e.g., Altium Designer, Eagle), focusing on optimal component placement and efficient routing.

★ Controlling Speed of DC Fan Using PWM Technique In STM32F103C8

Embedded Systems

- The project aims to provide precise control over the speed of a DC fan, which is crucial for various applications such as cooling systems in electronics, HVAC systems, and automotive climate control.
- By utilizing PWM, the fan speed can be adjusted smoothly and efficiently, ensuring optimal performance and energy savings.

★ SMART CAR PARKING SYSTEM

Centurion University of Technology and Management • April 2023 - May 2023

- Developed an innovative car parking system using Arduino and infrared sensors to monitor and control vehicles.
- Wrote e client code to program the microcontroller to accurately detect and count the number of cars in the lot.
- Constructed a user-friendly interface with LCD displays that allowed users to easily access the system

★ COST EFFICIENT FIVE WAY HOME AUTOMATION FEEDBACK SYSTEM

Centurion University of Technology and Management • March 2023 - April 2023

- <https://ijsrem.com/download/cost-eclient-five-way-home-automation-with-feedback-system/>
- Developed a comprehensive Five-way cost e client home automation project to reduce energy consumption and maximize comfort.
- Implemented an Android application to control the system remotely, and a cloud database to store & retrieve data.

Software :

★ Amazon Cloning Webpage

Web Development

- The source code and output is published in github and portfolio's
- This project involves creating a responsive front-end for user interaction, a robust back-end to handle data storage and processing, and a secure payment gateway for transaction handling.

->Key Features:

- User Authentication, Product Management, Shopping Cart, Order Management, Admin Panel

★ Library Management System

Java

★ Electricity Billing System

II

★ Student Management System

II

★ Blogging Platform

II

★ Disease Prediction From Medical Data

Machine Learning

EDUCATION

Bachelors of Technology (B-Tech)

Centurion University of Technology & Management

• Vizianagaram , Andhra Pradesh • 2021 - 2025 • 9.11

INTERMEDIATE

M S N JR College

• Vizianagaram, Andhra Pradesh • 2019 - 2021 • 8.66

SSC

Z.P.H.S School Kassibugga

• Maradam, Andhra Pradesh • 2018- 2019 • 9.0

CERTIFICATIONS

ACCENTURE Technology Consulting Virtual Experience Program

Forage • 2023

- Completed a simulated technology consulting program to gain practical insights into solving real-world business problems using innovative technology solutions.

COMMON INTERNSHIP TEST

CIT-P-188034 • 2023

- In this Test describes my evaluate key skills like Problem-Solving, Technical Proficiency, Analytical Skills and Communication.

CISCO NETWORKING ACADEMY COMPLETION OF OPERATING SYSTEMS

CISCO • 202023

- In this Test describes my evaluate key skills like Problem-Solving, Technical Proficiency, Analytical Skills and Communication.

SLASH MARK INTERN IN THE PYTHON COURSE

SMI62288 • 2023

- In this Test describes my evaluate key skills like Problem-Solving, Technical Proficiency, Analytical Skills and Communication.

TCS IQN COMPLETION OF COMMUNICATION SKILLS

CIT-P-188034 • 2023

- In this Test describes my evaluate key skills like Problem-Solving, Technical Proficiency, Analytical Skills and Communication.

SKILLS

Proficient in Java & DAVP

Data Structures and Algorithms

Intermediate in C, C++, Python and Databases

Software's : Eclipse, Visual Studio, HackerRank, Geeks for Geeks

Software's for Core : Cadence Virtuoso, Eagle CAD, AutoCAD, Arduino ID, Xilinx, Cisco Packet Tracer

TECHNOLOGIES

Frontend : HTML, CSS, Javascript, React Js and Node Js.

Programming language(backend) : Java, Python, C

Database : MongoDB, SQL, XAMPP

SOFT SKILLS

Multitasking & Adaptability

Problem Solving & Flexible

Selflerning & Motivated

ACHIEVEMENTS

Golden Badge in Python from Hackerrank



Silver Badge in C, Java from Hackerrank



3 Star Coder in CodeChef

More than 500 problems solved in online coding platforms

100% Course Completed in Java from Codetantra

Course completed in Java from GeeksforGeeks

Contest rating 1005 in Codeforces

