PEDABALLI VISHNU VARDHAN REDDY

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Career Objective

Aspiring Embedded Systems Engineer with strong technical skills in both software and hardware development. Eager to contribute to innovative projects in core embedded solutions, microcontrollers, and IoT systems, while gaining hands-on industry experience and further enhancing my expertise.

Educational Qualifications

Qualification	Institution	Year of Passing	Aggregate
B. Tech	K.L University, Vijayawada	Pursuing	87%
Intermediate	Sri Chaitanya Junior College, Vijayawada	2022	69%
SSC	Sri Chaitanya School, Hyderabad	2020	100%

Skills

Technical:
- Programming Languages: Embedded-C, Bare Metal programming
- Hardware: Arduino, NodeMCU, ESP32, STM32
- Hardware Prototyping: PCB Design, Component Soldering
- Software Development: Web Development

Interpersonal:
- Adaptability
- Teamwork
- Time Management
- Collaboration
- Troubleshooting
- Professionalism

Certifications and Workshops

- IBM Python Certification
- Web Development Certification (Udemy)
- Internet of things (NPTEL)
- Microcontroller Embedded C Programming (Udemy)

Projects

Project 1

Title: Water Quality Monitoring System

Role: Website Designer and Hardware Integrator

Duration: March 2023 (1 Month)

Description: Developed a real-time water quality monitoring system with hardware-software interfacing for data collection and analysis.

Project 2

Title: Home Automation System

Role: Hardware and Software Developer

Duration: June - July 2024 (2 Months)

Description: Developed a custom home automation system integrating various smart devices, including designing and building a PCB from scratch. Created both the hardware and software components and overcame challenges related to multi-protocol communication for smooth operation in a home and college setup.

Project 3

Title: Motion Detection Automatic Lights and Fan System

Role: Hardware and Software Developer

Duration: August 2024 (1 Month)

Description: Implemented a motion-activated lighting and fan system, addressing sensor accuracy and system responsiveness.

Project 4

Title: STM32 Drivers Development

Role: Driver Developer (Ongoing)

Description: Developing STM32 drivers from scratch using Bare Metal programming and Embedded C/C++.

Internships

- **Web Development Virtual Internship**
  Internship Provider: InternPe
  Duration: June 2024 (1 Month)

Hobbies

- Building and repairing devices
- Exploring new and emerging technologies in IoT and embedded systems
- Gaming

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Declaration

I hereby declare that all the information provided above is true and correct to the best of my knowledge.