NEHA S

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Target Role: VLSI Design Intern — Embedded Systems Intern

SUMMARY

Passionate Electronics and Communication Engineering student with practical experience in embedded systems, IoT prototyping, and PCB design. Skilled in RTL design, circuit development, and microcontroller interfacing. Familiar with Verilog, KiCad, and testbench creation. Actively seeking a VLSI Design or Embedded Systems Internship to contribute to RTL simulation, logic synthesis, or real-time hardware projects.

EDUCATION

Bachelor of Engineering (B.E.), Electronics and Communication Engineering
Yenepoya Institute of Technology Jan 2022 – Jan 2026

SKILLS

Programming: C, Embedded C, Python, Verilog
Tools: KiCAD, Arduino IDE, Blynk, Linux, Postman
Concepts: RTL Design, VHDL (basic), Static Timing Analysis, UVM (basic), Logic Synthesis, Testbench Development, Schematic Capture
Soft Skills: Communication, Teamwork, Time Management, Problem Solving, Project Management

PROJECTS

Real-Time Monitoring and Alert System for Water Purifiers Jul 2024 – Jan 2025

- Built IoT system using TDS sensors and Blynk App for real-time water quality alerts.
- Enabled predictive maintenance through threshold-based notifications.
- Displayed live readings on mobile dashboard using Wi-Fi-enabled microcontroller.

ATmega328p Trainer Kit Apr 2025

- Designed embedded development kit interfacing push buttons, LEDs, buzzers, and LCD.
- Used ATmega328p for real-time testing in lab training environments.
- Improved hands-on practice quality with modular sensor testing layout.

5V to 3.3V Voltage Regulator PCB – KiCad Mar 2025

- Designed compact AMS1117-based regulator with USB Micro-B input and 3.3V screw terminal output.
- Completed schematic, layout, DRC checks, 3D modeling, and Gerber generation in KiCad.
- Reinforced concepts in PCB trace design, silkscreen labeling, and voltage regulation.

EXPERIENCE

Embedded Systems Intern – Plasmid (MSME) Feb 2025 – Apr 2025

- Assisting in building embedded kits using ATmega328p with sensor, buzzer, and LCD interfaces.
- Supporting real-time firmware development and testing for academic deployment.

Embedded IoT Intern – Pantech.ai Jan 2024 – Apr 2024

- Created IoT projects using Arduino and Blynk App for data monitoring and control.
- Modularized codebase and simplified setup for sensor-based alert systems.

CERTIFICATIONS

Blended VLSI Design – Maven Silicon (Ongoing)
Machine Learning – CSRBOX IBM SkillsBuild (2024)
Embedded Systems Internship – Plasmid (2025)
IoT Internship – Pantech.ai (2024)
Python 3.4.3 – IIT Bombay Spoken Tutorial (87.14%)
Arduino – IIT Bombay Spoken Tutorial (92.50%)
Software Development – Brilliant Students Org (95%)

LANGUAGES

English, Kannada

INTERESTS

Reading • Chess • Traveling • Painting • LeetCode (20+ problems solved)