

Aspiring Engineer pursuing a B.Tech in Electronics Communication Engineering. Developing skills in C programming with a strong interest in problem-solving. Interested in analog electronics, computer networks and embedded systems.

EDUCATION

B.Tech Electronic and Communication Engineering

Amrita Vishwa Vidyapeetham

2021 - Present

CGPA - 8.39

High School

Carmel Garden School

2020 - 2021

Percentage - 92

SSLC

Carmel Garden School

2018 - 2019

Percentage - 88

ACADEMIC PROJECTS

Fingerprint biometric-based logic locking approach - VLSI
(07/2024 - Present)

- Designing a secure logic-locking mechanism using fingerprint signatures as unique keys within the High-Level Synthesis (HLS) workflow.
- Testing the approach on benchmark circuits to ensure robust hardware security.

Frequency Sound Based Automation - Analog Electronics
(01/2024 - 05/2024)

- Developed a sound-based automation system using three distinct frequencies to trigger specific components.

Automatic Drug Dispensing ATM - Embedded Systems
(07/2023 - 12/2023)

- Created an automated system for dispensing medicines
- Utilized LPC2148 microcontroller for implementation.

True Random Number Generator - Verilog
(01/2024 - 05/2024)

- Implemented random number generation using encrypt flip-flop and shift register architectures on the Basys 3 FPGA board.

Movie Recommender using C - C programming
(01/2022 - 05/2022)

- Developed a program to recommend and share movies among users using C programming.

WORK EXPERIENCE

Internship

Wireline Solution India Pvt Ltd

05/2024 - 06/2024

Gained hands-on experience in configuring, troubleshooting, and securing network devices. Monitored and managed network traffic using Access Control Lists (ACLs).

SKILLS

Programming Languages: C, Python, Verilog HDL

Tools and Platforms: Keil uVision, LT Spice, Xilinx Vivado, Cisco Packet Tracer, MySQL, ANSYS HFSS

Networking: Cisco Router/Switch Configuration, VLANs, TCP/IP Protocols

ACHIEVEMENT

Runner up in BJT challenge

Awarded second place in a team-based event that tested knowledge of transistors and basic electronics concepts.

CERTIFICATIONS

Introduction to Networks(ITN) - CCNA
(09/2023 - 11/2023)

Covered TCP/IP protocols, device configuration, and LAN/WAN operations.

Switching, Routing, and Wireless Essentials(SWRE) - CCNA (12/2023 - 02/2024)

Gained expertise in VLANs, inter-VLAN routing, and wireless network configuration.

Enterprise Networking, Security, and Automation(ENSA) - CCNA
(02/2024 - 06/2024)

Advanced knowledge in ACLs, VPNs, QoS, and SDN concepts.

LANGUAGES

English

Professional Working Proficiency

Tamil

Native or Bilingual Proficiency

Telugu

Native or Bilingual Proficiency

INTERESTS

Analog Electronics

Computer Networks

Embedded Systems