

NEVIN VINOD

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SUMMARY

Electronics and Communication Engineering graduate with expertise in **embedded systems**, **microcontrollers**, **FPGA** design and hardware-software integration. Skilled in **cybersecurity** fundamentals, threat analysis, and network security tools. Seeking a role to design and implement efficient, reliable, and secure embedded solutions.

EDUCATION

Bachelor of Technology in Electronics & Communication Engineering

APJ Abdul Kalam Technological University Kerala

Nov 2021 - May 2025

CGPA: 6.89

Higher Secondary Education

Kerala Department of Higher Secondary Education

June 2019 - March 2021

96.25%

PROJECTS

Floating Point ALU IC Design

- Designed a 2-integer 4-decimal **ALU** using **VHDL** in **Xilinx Vivado** and implemented it on a **FPGA Basys 3**.
- Developed an **"Infinity Catcher"** to detect exceptional outputs using **OR-gate** logic.
- Incorporated **time-toggling** for sequential execution and clear output visibility.

LSB Image Steganography

- Developed an **image steganography** system using **C** to securely hide data within images.
- Implemented the **LSB** algorithm for efficient data **encoding** and **decoding**.
- Utilized **file handling** and structures to manage image data and ensure accurate message retrieval.

Address Book Using C

- Developed a command-line based contact management system in **C**.
- Implemented features to add, edit, delete, and search contacts using **file handling**.
- Optimized data storage using **structures** for efficient record management.

Medicine Alarm & Dispenser System

- Developed an **Android application** for medicine scheduling with alarm functionality.
- Used **ESP32** and **ESP8266** microcontrollers to control medicine dispensing and trigger local alarms.
- Integrated **cloud** connectivity to send alerts and notifications to external users.

Obstacle Avoiding Robot Rover

- Built an **Autonomous** robot using **IR** sensors for real-time obstacle detection.
- Integrated a motor driver module to control movement based on sensor input.
- Programmed the robot to navigate while avoiding obstacles in its path.

SKILLS

- Programming & Development: **Embedded C** | **Arduino** | **STM32** | **Microcontroller** | **Linux**
- Cybersecurity Tools: **Kali Linux** | **Wireshark** | **Cisco Packet Tracer**
- Design: **Figma** | **Photoshop** | **Canva** | **DaVinci Resolve** | **Illustrator** | **Framer** | **UI/UX Design**
- Soft Skills: **Communication** | **Active Listening** | **Team Collaboration**

CERTIFICATIONS

- Electronics & Embedded: Certified in **PCB Design**, **Software Defined Radio**, **Electronic Product Design**, **EV System** - IIT.
- Cybersecurity: **Internship on Cybersecurity with AI** by **NIIT** Foundation, **Google** Foundation of Cybersecurity 2025, **ISC2** Course Completed in Certified in Cybersecurity 2025, **Cisco** Cybersecurity Essentials 2025.

EXTRA-CURRICULAR

- SPC Cadet (2016–2018)** – Completed training under the Student Police Cadet Scheme in **A+** Grade, fostering discipline and leadership.
- Freelance Social Media Manager & Graphic Designer** – Managed freelance projects in branding, content creation, and digital marketing for 4+ years, delivering brand identity solutions across industries.