CONTACT

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EDUCATION

2022 - 2026

Bannari Amman Institute of Technology

- **B.E - ELECTRONICS AND COMMUNICATION ENGINEERING**
- **CGPA - 7.76** (upto 5th semester)

2018 - 2021

SARATHA INTERNATIONAL SCHOOL

- **10 - Grade : 90.6%**
- **12 - Grade : 87.6%**

TECH SKILLS

- PCB - Design
- Embedded System
- Digital Electronics
- C - Programming
- Java - Programming
- My SQL
- IoT

AREA OF INTEREST

- PCB Design
- Internet of Things
- Electronics and Circuits
- Software Development (MERN)

HARI NIVASAA V

ELECTRONICS AND COMMUNICATION ENGINEERING

PROFILE

I am a proactive and enthusiastic Electronics and Communication Engineering student, passionate about applying my knowledge in electronics, PCB , IOT and software development to real-world challenges. My commitment to learning and collaboration makes me a valuable contributor to projects, driving innovation and efficiency within teams.

PROJECTS

IOT Trainer Kit

NOV 2024 - MAR 2025

- Integrating of multiple sensors and microcontrollers on a compact 4-layer PCB.
- Enables hands-on IoT learning and rapid prototyping.

Role Played : PCB Designer

Technology used : Altium Designing Sofware

8 - Bit Computer

MAR 2024 - NOV 2024

- A modular 8-bit computer inspired by Ben Eater to demonstrate core computing principles.
- Explains binary logic, clock cycles, and memory through hands-on learning.

Role Played : PCB Designer

Technology used : Altium Designing Sofware

Maze Solver

DEC 2022 - FEB 2023

- Implements autonomous maze solving using STM32 with real-time sensor-based navigation.
- Showcases path mapping, obstacle avoidance, and embedded system efficiency.

Role Played : PCB Designer

Technology used : Altium Designing Sofware

TOOLS & TECHNOLOGY

- Altium Design
- Kicad Design / Diptrace
- React
- VS Code
- Figma
- Arduino IDE

CERTIFICATIONS

- Altium Designer Essentials
- Programming Fundamentals of Python
- Create your first Python program from UST

LANGUAGES

- Tamil (R,W,S)
- English (R,W,S)

HOBBIES

- Cricket
- Artist
- Volunteering
- Travelling

EXTRA-CURRICULAR ACTIVITIES

- Runner-up in Football Tournament – Kongu Sahodaya, Coimbatore (2019)
- Winner in Intraschool Volleyball and Football Competitions (2020)

RP2040-Based GSM Communication System

OCT 2024 - JAN 2025

- Utilizes the RP2040 microcontroller with a GSM module for SMS-based communication.
- Enables remote monitoring and control via cellular networks.

Role Played : PCB Designer

Technology used : Altium Designing Sofware

Customized VSD squadron FPGA

JUN 2025

- Customizes the VSDsquadron FPGA board to implement user-defined digital logic designs.
- Demonstrates low-level hardware control and real-time execution on an open-source FPGA.

Role Played : PCB Designer

Technology used : Altium Designing Sofware

E-Commerce - Website

FEB 2025 - MAY 2025

- Built an eCommerce platform using the MERN stack with real-time product updates and secure payments.
- Features user authentication and responsive design for smooth multi-device performance.

Role Played : Frontend and Backend developer

Technology used : React , Node.js , Mongo DB, Express - MERN

CO-CURRICULAR ACTIVITIES

Shaastra 2023 - Indian Institute of Technology (IIT) Madras in Chennai, India.

Project : Micro Mouse Maze Solver - Jan 2023

Technoxian 2023 - All India Council for Robotics & Automation (AICRA), Noida (UP)

Project : Micro Mouse Maze Solver - Aug 2023

Robotic Club 2023 - The Indian Institute of Technology, IIT Palakkad ,Kerala, India.

Project : Line Follwer Robot - Feb 2023

RISC-V on FPGA and SoC Chip Tape-Out Experience - Cambridge University, Bangalore ,India

Edilabs -2022 - Sri Manakula Vinayagar Engineering College, Puducherry,India

Project : Women Safety Device (**Runner**) - Dec 2022

Digitrix -YUGAM -2024 - Kumaraguru College of Engineering , Coimbatore ,India.

Project : Circuit solver - Mar 2024

DECLARATION

I, Hari Nivasaa V, hereby declare that the above-mentioned particulars are true and correct to the best of my knowledge and belief.

Date :

Place : Sathyamangalam

Signature