



BALAJI RAGUL P

ELECTRONICS AND COMMUNICATION ENGINEERING

PCB DESIGNER

PERSONAL DETAILS

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EDUCATION

- 2022-2026
Bannari Amman Institute of Technology
 - Bachelor of Engineering
 - CGPA: 8.06
- 2021 - 2022
12th - St. Joseph's Mat.Hr.Sec.School
 - Percentage - 88%
- 2019 - 2020
10th - St. Joseph's Mat.Hr.Sec.School
 - Percentage - 98%

SKILLS

- PCB design
- C
- Digital Electronics
- Verilog HDL
- Java
- HTML/CSS/JS
- Adobe photoshop

EDA TOOLS

- Altium Designer
- DipTrace
- KiCAD

CAREER OBJECTIVE

Passionate and detail-oriented engineer with a strong foundation in PCB design, embedded systems, and web development. Dedicated to building innovative hardware-software integrated solutions including robots, smart circuits, and interactive web interfaces. Seeking opportunities to apply technical expertise in real-world projects while continuously learning and adapting to emerging technologies in dynamic, fast-paced environments.

PROJECTS

- 8-bit computer** Sep 2024 - Nov 2024
 - Role :** PCB designer
 - Built a custom 8-bit computer with 4-layer PCB design.
 - Developed core components: CPU, ALU, memory, and I/O.
 - Implemented and tested basic computing operations.
- Home automation** Jun 2023 - Sep 2023
 - Role :** Embedded & Hardware Integration
 - Designed an autonomous lighting system using sensor inputs.
 - Enabled smart switching based on user preferences and environment.
 - Achieved energy-efficient and responsive performance.
- NeoLink STM32** Jan 2025 - Feb 2024
 - Role :** PCB designer
 - Designed a 2-layer PCB with STM32F103C8T6 and key peripherals.
 - Enabled UART links to ESP-12S, Bluetooth, and 2.4G modules.
 - Ensured stability with EEPROM, crystal, and decoupling circuits.
- Breadboard Power Supply** Jan 2024 - Mar 2024
 - Role :** PCB designer
 - Built a USB-C breadboard power supply with PD fast charging.
 - Included DIP switch control and LED voltage indicators.
- Smart Irrigation System** Feb 2023 - Mar 2023
 - Role :** Embedded & Hardware Integration
 - Built smart irrigation with ESP8266 and real-time sensor data.
 - Automated watering via relay using soil and weather input.
 - Designed custom PCB for reliable integration.

AREAS OF INTEREST

- PCB design
- Web development
- VLSI design

SOFTWARE TOOLS

- VS Code
- Canva UI Design
- Notion
- Arduino IDE

HOBBIES

- Cricket
- Kabaddi

LANGUAGES

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

● Gemini Clone

Jan 2024 - Mar 2024

- **Role :** Front-end developer
- Built a Gemini Clone replicating core platform features.
- Developed a responsive front-end with HTML, CSS, and JavaScript.
- Designed a user-friendly interface matching the original system.

CERTIFICATIONS

• Altium designer - Essentials	Jul 2024
• Responsive Web design - freecodecamp	Aug 2024
• Business Development: From Start to Scale - NPTEL	May 2025

PAPER PRESENTATION

- International conference on recent advances in science, engineering and management.
 - Organized by Trinity Academy of Engineering, Pune Oct 2023
 - Paper Title : 8-bit computer
- International conference on current trends in modernized computing and communication technologies mcct-2023
 - Organized by Saveetha school of engineering , chennai Nov 2024
 - Paper Title : Home automation

ACHIEVEMENTS

• Women’s Safety device - Runner Up (Ediylabs)	Jan 2023
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WORKSHOP

• RISC-V on FPGA & SoC chip Tape-Out Experience (2 days)	Nov 2024
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DECLARATION

I hereby declare that the above-mentioned information is accurate and true to the best of my knowledge. All work described has been completed by me, and I take full responsibility for the accuracy of the details provided.

BALAJI RAGUL P
SATHYAMANGALAM