

# LAVANYA

📍 Raichur, Karnataka, India

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## Objective

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**Motivated** Electronics and Communication Engineering (ECE) student **with a strong foundation in** VLSI, IoT, Embedded Systems, and Digital Electronics. **Passionate about** semiconductor technology and advanced computing, **seeking opportunities to apply my skills in** innovative projects, internships, and research. **Hands-on experience with** Arduino, Verilog, and microcontroller programming **through academic projects and certifications.**

## Education

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**JSS Academy of Technical Education, Bengaluru, Karnataka** 2022 – Ongoing

*Visvesvaraya Technological University (VTU)*

*Bachelor of Engineering (BE) in Electronics and communication Engineering (ECE)*

(GPA: 4.15 /10)

**JUSTICE SHIVRAJ PATIL PU College, Raichur, Karnataka** 2020 – 2022

12th – 69.5%

**KPCL DAV PUBLIC SCHOOL, Raichur, Karnataka** 2020

10th – 68.48%

## Projects

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### Wireless Smart Notice Board Using Arduino & IoT

- Developed a **wireless communication system** for smart displays using **Arduino and IoT protocols**.
- Enabled real-time updates via **Wi-Fi module (ESP8266)** and integrated it with a cloud-based system.
- Improved understanding of **microcontroller interfacing, sensor integration, and IoT applications**.

### 32-bit RISC Processor Using Verilog (*Ongoing*)

- Working on designing a **32-bit RISC-based processor architecture** using **Verilog**.
- Simulating processor operations and instruction execution on **FPGA tools**.

## Skills

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- Verilog HDL & VLSI Design
- Embedded Systems & IoT
- Digital & Analog Electronics
- Microcontrollers (Arduino, Raspberry Pi)
- Semiconductor Physics
- PCB Design & Circuit Analysis
- Programming: C, C++ (Basic)
- Wireless Communication & Networking Protocols
- Good **Communication Skills**.

## Certifications and Achievements

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- **Introduction to Internet of Things (IoT) - NPTEL & Simplilearn.**
- **PCB Design Workshop Certification.**
- Attended workshops on **VLSI Design, Embedded Systems, and PCB Designing.**
- Participated in **NSS activities** with certification from **BWSSB Office** for social service.
- Actively engaged in **blood donation and social service activities.**