BALAMURALI B

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MECHATRONICS ENGINEERING

CAREER OBJECTIVE

Mechatronics engineering student with a passion for innovation, problem-solving, and continuous learning. Adaptable to new challenges and committed to developing impactful, real-world solutions.

EDUCATION

Kongu Engineering College   **Perundurai, Erode**
B.E.Mechatronics Engineering - CGPA: 8.71 (Till 5th Semester)   2022 - present

Vedavalli Vidyalaya Hr.Sec.School   **Walajapet, Ranipet**
HSC - 83.2%   2022

Vedavalli Vidyalaya Sr.Sec.School   **Walajapet, Ranipet**
SSLC - 80.6%   2020

PROJECTS

Personal Portfolio [View Demo]   **July, 2025**
- Developed personal portfolio showcasing projects, skills, and professional journey.
- React | Tailwind CSS | Framer-Motion | tsparticals | Typedjs | Netlify

Product Catalog CMS [View Code]   **April, 2025**
- Developed a full-stack web application for product management with theme switching and real-time UI updates.
- MongoDB | Express | React | Node.js | Chakra-UI | RestAPI

Automation Of Public Distribution System   **May, 2025**
- Designed a semi-automated system to improve efficiency, transparency, and accuracy in the Public Distribution System .
- ESP32 | RFID| NEMA 17 | DRV8825 | Load Cell | HX711

Smart Agro Storage Device   **October, 2024**
- Portable storage device to preserve fruits, vegetables and dairy products for road side vendors.
- Peltier Module | DHT11 | ESP32 | Adafruit IO | Relay

AREAS OF INTEREST

- Full Stack Development
- Electron Devices And Digital Circuits
- Fluid Power System

SKILLS

- **PROGRAMMING -** C | C++ | Java | Python
- **FRONTEND -** HTML | CSS | JS
- **DATABASES -** MySQL | MongoDB
- **FRAMEWORK -** ReactJS
- **DEVELOPMENT TOOLS -** Git | VS Code | Postman

SOFTWARE KNOWN

- AutoCAD
- SolidWorks
- EAGLE (PCB)
- LabVIEW

INPLANT TRAINING

- NIDCE INDIA PRECISION TOOLS - 4 DAYS - JULY, 2024

CERTIFICATION

- MongoDB Associate Developer - MongoDB (2025)
- Ethical Hacking - NPTEL (2023)

ADDITIONAL COURSES

- Data Visualization Using MATLAB - KEC
- IOT And Application - KEC
- Design Of Printed Circuit Board - KEC

PAPERS AND CONFERENCE

- "Smart Home Automation" in Anna University, Coimbatore on November 2023.
- "Loan Prediction Using Machine Learning" in PA Engineering College on April 2024.

LEADERSHIP EXPERIENCE

- IEEE - Robotics And Automation Society - Executive Head
- Active Member Of National Service Scheme

LANGUAGES KNOWN

- ENGLISH
- TAMIL