



BALAMURALI B

MECHATRONICS ENGINEERING

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OBJECTIVE

"I'm a mechatronics student passionate about innovation and problem-solving. I love learning, adapting to new challenges, and creating solutions that make a difference."

EDUCATION

Kongu Engineering College

B.E.Mechatronics Engineering - CGPA: 8.71 (Till 5th Semester)

Perundurai, Erode

2022 - present

Vedavalli Vidyalaya Hr.Sec.School

HSC - 83.2%

Walajapet, Ranipet

2022

Vedavalli Vidyalaya Sr.Sec.School

SSLC - 80.6%

Walajapet, Ranipet

2020

PROJECTS

Smart Agro Storage Device

October, 2024

- Developed a smart, portable refrigerator using a Peltier module and DHT11 sensor, enabling efficient temperature regulation for perishable storage. Integrated Adafruit IoT for real-time temperature monitoring and remote control, enhancing user convenience and energy efficiency.

AI Based Smart Geyser

January, 2024

- Implemented the K-Nearest Neighbors (KNN) algorithm to analyze geyser operational patterns from historical usage data, gaining insights into user behavior. Automated geyser functionality based on identified patterns, optimizing energy consumption and ensuring efficient operation.

AREAS OF INTEREST

- Internet Of Things
- Full Stack Development

SKILLS

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

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
- Design Of Printed Circuit Board - KEC
- IOT And Application - 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.
- "Performance Analysis Of Noise Reduction In a Capacitive MEMS Accelerometer" in IIT, Mandi on June 2024.

LEADERSHIP EXPERIENCE

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

LANGUAGES KNOWN

- TAMIL
- ENGLISH