

# THIYAANES V

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## OBJECTIVE

An undergraduate engineering student seeking an opportunity to start a professional career, with endless curiosity and the ability to learn from challenges. I enjoy exploring new ideas, experimenting with technologies, and solving real-world problems. Driven by persistence, I aim to turn innovative concepts into meaningful and practical solutions.

## EDUCATION

### SRM TRP ENGINEERING COLLEGE, TRICHY.

Bachelor of Engineering - Electronics and Communication Engineering (2022-2026),

CGPA – 8.04

### KRP MATRICULATION HIGHER SECONDARY SCHOOL, SANKARI.

Secondary School (2015 – 2022),

SSLC - 92% | HSC - 83%

## SOFT SKILLS

- Problem Solving and Decision Making
- Analytical Thinking
- Time Management
- Leadership

## TECHNICAL SKILLS AND TOOLS

- Python, Java (Basic)
- Version Control (GIT & GITHUB)
- UI/UX (Figma)
- HTML5, CSS3, Flask API, SQL(Basic)
- MS OFFICE & AI TOOLS
- Embedded Systems

## PROJECTS

### ENERGY USAGE OPTIMIZATION ON SMT LINES AND CNC SHOPS

- Built an AI-driven energy management system for SMT assembly lines and CNC machining centers.
- Utilized LSTM forecasting models and Isolation Forest anomaly detection in Python to predict energy demand and identify inefficiencies.
- Optimized scheduling and reduced idle power usage, achieving ~25% cost savings, enhanced sustainability, and improved operational efficiency.

GitHub Repository: <https://github.com/Thiyaanes/Energy-usage-optimization-on-smt-lines-and-cnc-shops>

### DEBUGGER'S NIGHTMARE IDE

- Developed Debugger's Nightmare IDE, an interactive coding environment that introduces random code errors and sarcastic feedback to test debugging skills.
- Built a feature where the IDE auto-corrects the code when the user gives up or time runs out, enhancing engagement and learning.
- Designed a fun, challenge-based platform using HTML, CSS and Python (Flask) to make debugging an entertaining and educational experience.

GitHub Repository: <https://github.com/Thiyaanes/Debugger-s-Nightmare-IDE>

## **VEHICLE ACCIDENT DETECTION AND ALERT SYSTEM**

- Developed an Arduino-based accident detection and alert system using ADXL335 Accelerometer, GPS, GSM Module, and C programming.
- Implemented real-time impact severity analysis and location tracking to automatically notify emergency services and family contacts.
- Improved response time and road safety by enabling automated alerts without human intervention.

## **ACHIEVEMENTS & ACTIVITIES**

### **Leadership & Time Management**

- Demonstrated leadership and time management by leading the development of a Vehicle Accident Detection and Alert System during the NAAC visit and designing a website for an organization within a 48-hour hackathon, effectively coordinating tasks, meeting tight deadlines, and delivering quality results.

### **Hackathons & Competitions**

- Winner – Protocol404: 48-Hour Virtual Hackathon
- 1st Prize – Ideathon, Government College of Engineering, Erode (2024), for Vehicle Accident Detection and Alert System.
- Finalist, Creonix National Level 30-hour Hackathon, SRM Ramapuram Engineering College, with a project on energy usage optimization in SMT lines and CNC shops.
- 3rd Place – UI/UX Competition, DAKSHAA T25, KSR College of Engineering; designed user-centered interfaces using Figma.

### **Paper Presentations**

- Presented a self-developed project paper at Government College of Engineering, Erode (2024) and KSR College of Engineering (2025).