

# THIYAANES V

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## OBJECTIVE

Innovative and solution-oriented engineering undergraduate student with hands-on experience in AI, IoT, and front-end development. Skilled in developing practical systems such as an AI-driven energy optimization platform and vehicle accident alert system, supported by certifications in Python, IoT, and Azure Ai Fundamentals. I am seeking opportunities in Software development where I can contribute my technical expertise, creativity, collaborative mindset and strong communication abilities to build scalable solutions that enhance efficiency and create meaningful impact in a dynamic work environment.

## 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%

## SKILLS

- Problem Solving and Decision Making
- Teamwork and Analytical Thinking
- Time management
- Leadership

## TECHNICAL SKILLS AND TOOLS

- C++, PYTHON
- VERSION CONTROL (GIT & GITHUB)
- UI/UX (FIGMA)
- HTML5, CSS3, SQL, Flask API
- MS OFFICE & AI TOOLS
- EMBEDDED SYSTEM & DIGITAL DESIGN

## PROJECT

### 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, JavaScript, 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.

## **AREAS OF INTEREST**

Software Development, Hardware Development, Operating Systems, Networking, Debugging and Analysis.

## **INTERNSHIP**

- Artificial Intelligence, Marcellotech (2024)

## **ACHIEVEMENTS**

## **LEADERSHIP QUALITY AND TIME MANAGEMENT**

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

## **PAPER PRESENTATION**

Presented my own project as a paper in Government College of Engineering, Erode (2024) and KSR college of Engineering (2025).

## **IDEATHON**

Presented the working model of my project, Vehicle Accident Detection and Alert System, and won 1st Prize at Government College of Engineering, Erode (2024).

## **HACKATHON**

Participated in the Creonix National Level 30-hour Hackathon at SRM Ramapuram Engineering College, reaching the final round and completing a project on Energy Usage Optimization in SMT assembly lines and CNC shops. Engaged in multiple virtual web development hackathons on Devpost, strengthening front-end development, problem-solving, and creative thinking skills. Gained hands-on experience in Figma through Figma Fusion, focusing on user-centered designs, and secured 3rd place in a time-bound UI/UX competition at DAKSHAA T25 at KSR college of Engineering.