

THIYAANES V

thiyaanesv@gmail.com | <https://www.linkedin.com/in/thiyaanes-v-08bb87282> | +916369853089

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.