UMA SHANKAR TIPPANA

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portfolio Koti Complex, Ichchapuram, Srikakulam Dist - 532312 Linkdin

PROFESSIONAL SUMMARY

Final-year Electrical and Electronics Engineering student with a strong foundation in industrial automation, PLC programming, and embedded systems. Experienced in full-stack web development and Power BI data visualization. Demonstrated leadership and teamwork skills as a Shift Lead intern in an industrial environment. Passionate about integrating AI and digital solutions into engineering applications and committed to continuous learning.

EDUCATION

B.Tech in Electrical and Electronics Engineering, *KL University* 2023 – 2026
CGPA: 8.84

Diploma in EEE, *Aitam College* 2019 – 2022
CGPA: 8.7

SSC, *Swarna Bharathi High School* 2019
CGPA: 8.8

TECHNICAL SKILLS

Languages
Python, C

Web Development
HTML, CSS, JavaScript

Automation
PLC (Siemens, Allen-Bradley), MATLAB,Embedded Systems and Autodesk Fusion 360

Tools
Power BI, VS Code, GitHub

INTENSHIPS

Amara raja batteries limited, *Assistant Engineer Trainee* 09/2022 – 05/2023
Roles and Responsibility : Chittor, Andhra pradesh

- Maintained daily maintenance checklists and recorded major equipment issues.
- Conducted preventive and breakdown maintenance inspections to ensure machine reliability.
- Identified and resolved production line issues, collaborating with cross-functional teams.
- Supported Six Sigma and CIP projects to drive process optimization and efficiency.
- Provided technical solutions using minimization techniques to reduce recurring faults.

Rashtriya Ispat Nigam Limited, *Industrial Trainee* 09/2021 – 02/2022
Roles and Responsibility: Visakapatnam, Andhra Pradesh

- Conducted regular inspections to identify issues such as overheating and electrical faults
- Performed preventive maintenance to improve motor efficiency and extend equipment lifespan
- Repaired motor components including bearings and windings

PROJECTS

PLC-Based Bulb Automation,

Tools Used: ISPSoft, DOPSoft, ComMgr, HWConfig Controller: Delta PLC HMI: Delta DOP series

- Designed and implemented a ladder logic program for bulb ON/OFF control using Delta PLC in ISPSoft.
- Developed an interactive HMI interface in DOPSoft to enable user-friendly bulb operation and real-time status monitoring.
- Configured communication protocols using ComMgr to establish reliable data exchange between PLC and HMI.
- Utilized HWConfig for hardware setup, including I/O mapping and addressing configuration.
- Conducted successful simulation and field testing to ensure robust operation of the system.

Water Quality Montoring System,

Tools Used: Arduino IDE, ThingSpeak / Blynk / Firebase Controller: Arduino Uno

- Designed and programmed the system using Arduino IDE for real-time turbidity data collection.
- Integrated turbidity sensor with Arduino Uno to measure water clarity and detect impurities.
- Connected the system to IoT platforms (e.g., ThingSpeak, Blynk) using ESP8266/ESP32 for live remote monitoring.
- Enabled both analog and digital outputs, with adjustable threshold via onboard potentiometer.
- Conducted testing in controlled environments to validate sensor accuracy and data reliability.

Fest Website ,

Tools Used: HTML, CSS, JavaScript Platform: Visual Studio Code, GitHub Pages

- Designed a multi-page website using HTML, CSS, and JavaScript, highlighting event features, guidelines, and registration forms.
- Created an interactive UI with mobile responsiveness and dynamic event sections (e.g., hover effects, scroll animations).

CERTIFICATIONS

- Autodesk - Fusion 360 Design
- Embedded System & IoT
- Salesforce Certified Ai Associate

LANGUAGES

- Telugu
- Hindi
- English
- Oriya
- Japanese

ACADEMIC / TECHNICAL ACHEIVEMENTS

- Participated as a **Website Core Spark Member** in the Department Technical Fest Spark - 2024
- Served as a **Protocol Core Team Member** in the Technical Fest *Surabhi-2024*
- Participated as a **Cultural Coordinator** in the National-Level Technical Fest *Samyak - 2023*
- Awarded **Second Place – Good Trainee** at *Amara Raja Battery Limited-2023*

STRENGTHS AND WEAKNESS

Self-motivated, time management, self-confidence, good communication skills, quick learning of new technologies, adaptability, teamwork, friendliness, problem-solving, and critical thinking.

Deceleration

I hereby declare that the details furnished in this resume are true and correct to the best of my knowledge. I take full responsibility for the authenticity of the information provided.

Date:

Place: