



# MUKESHWARAN A

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## SUMMARY

A highly motivated Electrical & Electronics Engineering graduate with a strong foundation in embedded systems, microcontrollers, and IoT technology. Experienced in designing and implementing innovative hardware and software solutions, with a keen interest in cutting-edge engineering technologies. Seeking a challenging engineering position in a dynamic company that fosters critical thinking, innovation, and career growth. Equipped with hands-on experience in embedded C, sensor interfacing, communication protocols, and cloud-based IoT solutions. Passionate about leveraging technical expertise to contribute to advanced engineering projects.

## EDUCATION

SRI SAIRAM ENGINEERING COLLEGE 05/2024  
BE-EEE  
GPA:8.40

TI MATRICULATION HIGHER SECONDARY SCHOOL 01/2020  
HSC  
PERCENTAGE:70%

TI MATRICULATION HIGHER SECONDARY SCHOOL 05/2024  
SSLC  
PERCENTAGE:83.6%

## INTERNSHIP

### GH INDUCTION PVT LTD|STUDENT INTERN

August 2021 - September 2021

- Gained hands-on experience in induction heating technology, assisting in project development, testing systems, documenting processes, and collaborating with engineering teams to optimize heating solutions.

### PLACKA INSTRUMENTS PVT LTD

June 2023 - July 2023

- Gained practical experience in instrumentation and control systems, assisting with the design and calibration of measurement devices, conducting performance tests, and collaborating with engineers to enhance product functionality and reliability.

### ARCLIGHT STRUCTURAL ENGINEERING

February 2024- March 2024

- Gained hands-on experience in electrical wiring and systems integration within structural engineering projects. Assisted in the design, installation, and testing of wiring systems, ensuring compliance with safety standards and enhancing overall project efficiency.

## PROJECTS

### BATTERY MANAGEMENT SYSTEM USING IOT

December 2022

- Developed an innovative Battery Management System leveraging IoT technology to monitor battery health, optimize charging cycles, and ensure safety. Implemented real-time data collection and analysis for voltage, temperature, and charge status, facilitating proactive management of battery performance and longevity. Enabled remote monitoring and alerts through cloud integration, enhancing user accessibility and operational efficiency.

**GAS LEAKAGE DETECTION : RISKWATCH GUARDIAN SYSTEM**

April 2024

- Developed a Gas Leakage Detection Risk Watch Guardian System designed to enhance safety in environments prone to gas leaks. Utilized advanced sensors to continuously monitor gas levels and detect leaks in real time. Integrated an alert system to notify users via SMS and email, ensuring prompt response to potential hazards. The system features data logging for analysis and compliance, enabling proactive risk management and enhanced safety protocols.

**SMART VEHICLE HEALTH MONITORING & CONTROL SYSTEM**

August 2024

- Developed a Smart Vehicle Health Monitoring & Control System that utilizes IoT technology to track and analyze vehicle performance metrics in real-time. Integrated sensors to monitor critical parameters such as engine temperature, oil pressure, and battery health, enabling predictive maintenance and reducing downtime. Implemented a user-friendly interface for remote monitoring and alerts, allowing vehicle owners to ensure optimal performance and safety.

**EXPERIENCE**

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**PLC AUTOMATION COURSE,05/2024-10/2024**

**WIZTECH AUTOMATION,CHENNAI**

- I Completed intensive training in Programmable Logic Controllers (PLCs), covering industry-standard systems like AB PLC, Siemens PLC, Delta PLC, Mitsubishi PLC, Omron PLC , Schneider PLC, ABB PLC, Keyence PLC, HONEYWELL PLC and LS Electric PLC.
- Gained hands-on experience in programming, troubleshooting, and real-time project execution using ladder logic and function block diagrams (FBD).
- Developed expertise in HMI (Human-Machine Interface) and SCADA (Supervisory Control and Data Acquisition), including system design, alarms, trends, and security management.
- Proficient in control panel wiring, field instruments, and communication protocols for industrial automation projects.
- Worked on practical industrial projects such as car parking systems, traffic light control, and bottle filling processes.
- Familiar with robotics, specifically pick and place robots, as part of the course training.

**SKILLS**

- .....
- **PLC Programming:** Allen Bradley, Siemens, Delta, Omron, Mitsubishi, Schneider , ABB , Keyence , HONEYWELL and LS Electric.
  - **HMI (Human Machine Interface):** Delta, Omron
  - **SCADA Systems:** InTouch Wonderware
  - **Programming Languages:** Ladder Logic, Function Block Diagram (FBD), Sequential Flowchart(Schneider)
  - **Industrial Automation:** Control Panel Wiring, Field Instruments

**CERTIFICATION**

- .....
- NPTEL-SMART GRID: Basic to Advanced Technologies
  - NPTEL-Physics of Renewable Energy Systems
  - Post Graduate Diploma Course In Embedded System
  - Post Graduate Diploma Course In PLC & SCADA AUTOMATION

**ACHIEVEMENTS**

- .....
- Participated IEEE ICPECTS Conference
  - Workshop on PV-SYT Grid
  - Participated in Niral Thiruvizha 1.0
  - Published conference paper in ICCEBS Conference

**LANGUAGES**

- .....
- **TAMIL**
  - **ENGLISH**
  - **TELUGU**(BEGINNER)

**SOFT SKILLS**

- .....
- Team Work
  - Time Management
  - Leadership
  - Communication
  - Problem Solving