

# KOWSIKA S

## INDUSTRIAL AUTOMATION ENGINEER

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### CAREER OBJECTIVE

Self-motivated Electrical & Electronics Engineering student specializing in Industrial Automation. Proficient in PLC programming (WPL, OMRON, ISP), HMI design, and electrical control systems. Seeking an entry-level position to apply academic knowledge and hands-on project experience to deliver innovative automation solutions and contribute to organizational growth.

### EDUCATION

B.E EEE	Maha Barathi Engineering College Kallakurichi	2021 - 2025	CGPA:8.00
HSC	GHSS Somandarkudi Kallakurichi	2020 - 2021	80%
SSLC	GHSS Somandarkudi Kallakurichi	2018 - 2019	70%

### SKILLS

- **Automation & Programming** : PLC Programming for Delta (ISP,WPL)| Omron (CX Programming).
- **Software**: WPL|OMRON|ISP|HMI.
- **Core Competencies** : Creative Thinking| Public Speaking|Team Leadership|Probelm Solving.

### PROJECTS

#### PLC-Based Automation Projects:

- **Temperature-Controlled Fan System (Delta ISP)**: Designed and implemented a temperature-based fan control using zone comparators for dynamic fan operation based on temperature ranges.
- **Automatic Door Control (Omron CX, Allen Bradley RS Logix 1000, HMI)**: Developed an IR sensor based door automation system with position limit switches and timed delay for automatic closing.
- **Feeder-Grinder-Conveyor Sequential Control (Allen Bradley RS Logix 1000)**: Programmed a PLC based sequential control system ensuring timed activation and safe shutdown of equipment.
- **Automatic/Manual Water Tank Control (Mitsubishi GX Works 3, Omron CX)**: Designed dual-mode PLC system for water level management using level sensors and manual overrides.

#### HMI-based Automation Project:

- **Automatic Door Control**: Developed an HMI-based automatic door system using an IR sensor for detection, limit switches for position monitoring, and a timed delay for automated closing and reset.

### ACADEMIC EXPERIENCE

- Developed and tested ladder logic programs using Omron PLCs.
- Configured HMI interfaces for industrial process visualization.
- Simulated automation lines using WPL software.

### CERTIFICATION :

- **PUMO TECHNOVATION**: PLC programming for (Delta, Omron), HMI programming.

### LANGUAGES KNOWN

- TAMIL
- ENGLISH