Manikandan S
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OBJECTIVE

Results-driven **Application Engineer** with **2.5+ years of experience** in PLC programming, HMI development, and industrial automation. Proficient in **Allen-Bradley (AB), Schneider, Siemens, and Parker PLCs**, **ControlNet/DeviceNet/Profinet protocols**, and **FactoryTalk View HMI**. Skilled in troubleshooting automation systems, designing control panels, and managing cross-functional projects

TECHNICAL SKILLS

- **PLC -:** Allen-Bradley, Siemens, Parker, Schneider, fuji, Festo, Mitsubishi software did various projects for many small-scale industries, Input and output testing and troubleshooting existing logic.

- **VFD – SIEMENS, NIDEC, SCHNEIDER,** commissioning, and programming various VFDs.

- **Servo -** Proficient in installing, configuring, and troubleshooting servo drives for precise motion control applications. Experienced With Parker (FL20, Compax), Rexroth (Indra series), Schneider (LXM32 Series), Siemens (SINAMICS cu320 series), and AB (Kinetix5100, kinetix300) servos.

- **Panel – DOL, STAR & DELTA, RELAY CONTROL** Installation and commissioning.

- **Drawing -** Strong knowledge of electrical wiring diagrams, panel wiring designing, and troubleshooting.

PROFESSIONAL EXPERIENCE

Dec 2022 – Present
APPLICATION ENGINEER AT SLZTECH AUTOMATION, CHENNAI, INDIA

- Programmed and commissioned 15+ PLC systems for automotive, aerospace, and manufacturing clients, ensuring 100% compliance with technical specifications.

- Collaborated with cross-functional teams to troubleshoot Profibus/Device Net communication errors, resolving 95% within 24-hour SLA.

ACADEMIC QUALIFICATION

MECHATRONICS ENGINEERING.
 2017 – 2021.

Park college of engineering technology.

TECHNICAL QUALIFICATION

- Certified as **Industrial Automation Engineer** by IPCS Global Automation, Chennai, with hands-on practical experience in Industrial Automation Tools specializing in PLC (Siemens Delta, Mitsubishi), SCADA, and VFD.

WORKING PROJECTS

- ❖ **FEDERAL MOGAL BANGALORE INDIA.**
    1. **CNC Machine for Piston Ring Side Grinding**
    2. Programmed Fanuc CNC to automate grinding processes, achieving **±0.03mm precision** in piston ring manufacturing.
- ❖ **LUGAS TVS, CHENNAI, INDIA**
    1. **Torque Control Machine for Engine Starter Testing**
    2. Integrated Parker PLC with servo drives for real-time torque calibration.
- ❖ **SAINT GOBHAIN, BENGALURU, INDIA**
    1. **Glass Polishing Paper Maker Machine**
    2. Designed PLC logic for high-voltage control processing,
    3. **PLC & Servo Control System**
    4. Configured Schneider PLC with servo motors to maintain consistent tension in polishing paper rolls.

- ❖ **TITAN, HOSUR, INDIA**
    1. **Automotive Drive Shaft Pressing Machine**
    2. Developed servo-controlled pressing system using Siemens PLC, improving production efficiency by **15%**.
- ❖ **KANTHAL, HOSUR, INDIA**
    1. **Wire Resizing with PLC & DC Drive**
    2. Automated wire tension control using Siemens PLC and DC drives, reducing material waste by **10%**.
- ❖ **ISRO, BANGALORE, INDIA**
    1. Programmed Festo PLC to control 6-axis motion platforms, enabling precise simulation testing for aerospace applications.
- ❖ **BEL, BANGALORE, INDIA**

    Programmed Parker PAC to control 6-axis motion platforms, enabling precise simulation testing for defence applications.

LANGUAGES

- **Tamil**
- **English**