



Dedek Rahmat

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Taman Cipta Asri THP. 2 Blok. Nira No. 27

With over 3 years of experience in PLC programming, installation, and troubleshooting, I specialize in optimizing production systems to achieve high efficiency and effectiveness. Skilled in analyzing and interpreting ladder diagrams, I excel at diagnosing issues and delivering targeted solutions to enhance machine performance and productivity. Known for my proactive approach, I consistently exceed expectations by ensuring projects are completed within budget and with optimal results. My deep technical expertise, strong work ethic, and ability to build lasting client relationships make me a valuable asset in supporting team and company success.

Personal Details

Place, Date of Birth : Padang, July 17, 2001
Gender / Marital Status : Male / Single
Religion / Nationality : Islam / Indonesian

Pendidikan

Bachelors of Electrical Engineering (S1) , Padang State University

- IPK : 3.56

Experience

Engineer | Asus Service Indonesia – Batam

December 2024 – Present

- Diagnose and repair electronic faults in laptops and desktops, focusing on power circuits and mainboard issues.
- Repair multilayer PCBs using soldering and BGA rework techniques under ESD-safe standards.
- Developed a vision system using camera and software integration to detect and classify defective motherboards.
- Completed an automation project to build an autonomous transport vehicle (AGV) for material handling from warehouse to production line.
- Performed testing, calibration, and optimization of electronic and automation systems to ensure operational reliability.
- Applied electrical and control engineering principles to improve repair accuracy and production efficiency.

PLC Technician | Cladtek BI Metal Manufacturing - Batam

July 2024 – December 2024

- Conduct installation, programming, and maintenance of Programmable Logic Controller (PLC) systems to optimize production operations.
- Diagnose and repair automated control systems to ensure machine performance and efficiency.
- Develop and modify PLC programs according to production needs and security protocols.
- Design Human-Machine Interfaces (HMI) using Weintek, C#, and Python to enhance user interaction and automation efficiency.
- Create technical proposals and Bills of Materials (BOM) for technical project planning.
- Assist in budgeting, forecasting, and analysis to support project decision-making.
- Collaborate with engineering teams to analyze and enhance production effectiveness and safety.
- Perform calibration and testing of automation systems to meet operational standards.
- Document and report program changes and equipment configurations for future reference and compliance.
- Perform electrical troubleshooting on control panels, sensors, actuators, and motor drives to ensure uninterrupted operations.
- Read and interpret electrical schematics and wiring diagrams for installation and maintenance tasks.
- Assist in the installation and commissioning of electrical components including circuit breakers, relays, contactors, and transformers.
- Conduct routine inspections and preventive maintenance on low-voltage electrical systems and industrial power

distribution.

- Ensure all electrical work complies with safety standards and electrical codes in industrial environments.

Electrical Maintenance | Tenaris Hydril Indonesia - Batam

April 2024 – June 2024

- Assist management in continuous improvement at the maintenance plant
- Install and repair hydraulic components
- Perform replacements on diagnosed faulty electrical elements of machine
- Control and manage electrical spare parts on a daily basis to support production
- Modified PLC programs to meet project requirements and optimize performance.
- Installed wiring with precision and adherence to safety standards.
- Trained maintenance staff on PLC systems.
- Maintained strong client relationships to ensure satisfaction and long-term partnerships.
- Developing clear Work Instructions for streamlined processes and improved productivity
- Performed testing and calibration of electrical systems to ensure reliability and compliance with operational standards.
- Interpreted electrical diagrams and schematics to execute efficient diagnostics and installations.
- Supported power distribution system checks and ensured grounding systems were properly maintained.
- Ensured all electrical activities met safety standards and adhered to national electrical codes.

Teaching Assistant | Padang State University - Padang

July 2022 - March 2024

- Creating Mechatronics Practicum Jobsheet
- Taught PLC concepts to students.
- Ensured accuracy in student-made electrical and PLC circuits.
- Repaired faulty PLC
- Authored research journals
- Taught integrated PLC-IoT systems to students
- Assisted professors in evaluating students' final projects

Language

- *English*
- *Indonesian*

Abilities

- Quick Adaptation to New Technologies
- Critical Thinking and Problem-Solving Under Pressure
- Strong Client and Team Interaction Skills
- Effective Communication Abilities

Skills

- **Electrical Engineering:** Proficient in industrial electrical systems and component maintenance.
- **PLC Programming:** Programming and troubleshooting across various PLC platforms (Siemens, Yaskawa, Mitsubishi, Omron).
- **Pneumatic Systems:** Knowledgeable in pneumatic systems maintenance for industrial applications.
- **HMI Design:** Designing user interfaces using Weintek, C#, and Python.
- **AutoCAD & Electrical CAD:** Skilled in design and modeling for technical projects.
- **Microsoft Office Suite:** Professional use of Microsoft Word, Excel, and PowerPoint for reporting and documentation.
- **Data Analysis:** Capable of processing and analyzing data to support data-driven decision-making.