



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

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.

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 dialy 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

- 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.