

# KUNTO AJI YUDHOYONO

Site Engineer | IT & Electrical Technician | IoT & Networking Enthusiast

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## Professional Summary

An Electrical Engineering diploma graduate (GPA 3.73) with professional experience as a Site Engineer for Fleet Management System (FMS) in mining operations. Proficient in industrial electrical systems, computer networking, and IoT integration. Holds BNSP certifications and has published renewable energy research. Strong focus on system efficiency, technical problem-solving, and adopting new technologies with an analytical mindset.

## Education

### **Politeknik Negeri Madiun (Associate Degree in Electrical Engineering) | 2020 – 2023**

- GPA 3.73, graduated with honors.
- Final Project: Dual-axis Solar Tracker with IoT-based Remote Monitoring (published research).
- Technical Training: Electrical Power Engineering (2023).
- Involved in renewable energy monitoring and optimization IoT projects.

### **SMA N 1 Maospati (Natural Science Major) | 2017 – 2020**

- Head of Smanti Cyber Club.
- 1st Place Winner – Entrepreneurship Logo Design Competition.

## Work Experience

### **PT. Putra Perkasa Abadi – GA MEP | Agustus 2025 – Present**

- Electrical repairs, including installations and equipment
- Making Online monitoring as a project improvement
- Monthly panel and lightning arrester inspections

### **PT. Efortech Solusi Integrasi – Hardware Engineer | Mar 2025 – Juli 2025**

- Electrical network maintenance.
- Installation of SCADA monitoring devices and panels.
- SCADA panel wiring and gateway panel assembly.

### **PT. Efortech Solusi Integrasi (Deployed at PT Kalimantan Prima Persada) – Site Hardware Engineer | Nov 2023 – Mar 2025**

- Maintained and troubleshot FMS systems for heavy equipment in mining operations.
- Reduced equipment downtime by optimizing communication networks.
- Performed daily and monthly reporting of FMS data to management.
- Maintained electrical systems of mining units and installed SCADA monitoring devices.

### **PT. Garis Lurus Konsulindo – Electrical Technician | Sep 2023 – Oct 2023**

- Designed electrical systems for factories and housing projects, aligned with energy efficiency standards.
- Created technical reports for SLF (Operation Worthiness Certificate) applications.
- Delivered technical presentations to clients and government agencies regarding electrical safety regulations.

### **PT Jogja Mitra Panel – Electrical Technician Intern | Jan 2022 – Apr 2022**

- Learned electrical panel manufacturing processes including proposal creation, design, fabrication, and installation at client locations.

### **CV Surya Buana Perkasa – Electrical Technician Intern | Apr 2022 – Jul 2022**

- Learned maintenance of industrial equipment, including elevators, and conducted electrical inspections for issuance of operation worthiness certificates (SLF).

## **Certifications**

- Assistant Manager for Low Voltage Installation Design – BNSP (2023)
- Team Leader for Low Voltage Electrical Installation – PT Lisantara (2023)
- Junior Network Administrator – BNSP (2021)
- Technical Electrical Training – Politeknik Negeri Madiun (2023)
- Electrical & Fire Safety Awareness – ISS (2025)
- Awareness Ketinggian– Putra Perkasa Abadi (2025)
- Awareness LOTOTO– ISS (2025)

## **Publications**

- Smart Solar Tracker and Energy Control Based on IoT – [ResearchGate](#)
- PV Energy Monitoring and Optimization System with IoT – [ResearchGate](#)

## **Key Skills**

- Electrical Design & Installation
- Fleet Management System (FMS)
- Hardware & Software Troubleshooting
- Network Administration & IoT
- SLF (Operation Worthiness Certification) Documentation
- Website Developing

## **Hobbies & Interests**

- Writing technical articles on personal blog ([blog.kuntoaji.my.id](http://blog.kuntoaji.my.id))
- Experimenting with microcontrollers & IoT sensors (ESP32, Arduino)
- Project documentation via drone photography
- Swimming for fitness and focus