

IVAN MUNANDAR PURNAMA
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Tangerang, Indonesia

PROFESSIONAL SUMMARY

Electrical Engineering graduate with professional experience as a Laboratory Technician specializing in electrical and electronic product testing based on SNI IEC standards. Experienced in product safety evaluation, compliance testing, technical documentation, and electrical troubleshooting for Audio Video equipment, electrical accessories, and control systems. Possess additional expertise in IoT development, embedded systems, software engineering, and network technologies, enabling integration between hardware and software solutions. Highly adaptable with strong analytical thinking and problem-solving skills across engineering and technology environments.

EDUCATION

Bachelor of Electrical Engineering

Universitas Sultan Ageng Tirtayasa

- GPA: 3.73/4.0
- Focus: Telecommunications and Computer Networks

PROFESSIONAL EXPERIENCE

Laboratory Technician | PT ANINDYA Certification and Testing, Jakarta

May 2026 – Present

- Conducted product safety and performance testing based on SNI IEC standards for electrical and electronic products, supporting compliance and certification processes
- Prepared technical reports, test documentation, and evaluation results to support product approval and quality improvement.
- Delivered accurate test reports and technical analysis to support quality assurance and product improvement decisions.
- Expanded testing expertise through training on IEC 60335 (Home Appliances), IEC 60598 (Lighting), and IEC 61215/61701 (Photovoltaic products).

Web Developer Intern | Telkom Indonesia, Jakarta

February 2024 – July 2024

- Collaborated with cross-functional teams to develop solutions for product monitoring systems and increasing product monitoring efficiency by 40%.
- Managed and maintained Linux server infrastructure to support deployment and maintenance processes, ensuring system reliability to handle high loads.
- Developed and maintained web-based monitoring and management applications using Next.js and Express.js to support business operational needs.

Web Developer Intern — Kedaireka

May 2022 – June 2022

- Developed responsive frontend interfaces for supply chain management applications.
- Optimized application performance, reducing page loading time by **50%** and improving user experience.
- Contributed to team projects, demonstrating strong collaboration and problem-solving skills applicable to industrial environments.

PROJECTS EXPERIENCE

Solar Panel Realtime Monitoring System

Fullstack IoT Developer

February 2025

- Tech: JavaScript, Supabase, WebSocket, ESP8266, C++

- Built solar energy dashboard with WebSocket integration for low-latency updates; interfaced sensors via ESP8266 to track efficiency and uptime.

Real-Time Temperature and Humidity Monitoring System for Server Rooms

Fullstack IoT Developer

January 2025

- Tech Stack: JavaScript, Supabase, WebSocket, ESP8266, C++
- Designed real-time monitoring tool with ESP8266 & DHT11 sensors, enhancing environmental stability of sensitive hardware zones. Included alert mechanism to preempt thermal failure.

Network Security Implementation (Thesis Project)

2024

- Tech Stack: Linux, Wireshark, sFlow, Parallel computing, Mininet, Ryu Controller
- Achieved 75% accuracy in cyber threat detection using deep learning over SDN network simulation.

CERTIFICATIONS & TRAINING

Ethical Hacking Essentials | EC-Council

2023-2026

- Mastered vulnerability assessment and penetration testing
- Proficient in Kali Linux, Metasploit, Wireshark

DevOps Beginner to Advanced | Udemy

2025

- Gained expertise in CI/CD pipelines using Jenkins, GitHub Actions, and Docker
- Developed and deployed containerized applications using Docker and Kubernetes

AI and Life Skills Foundations | Orbit Future Academy

2022

- Specialized in data science, computer vision, and NLP
- Completed practical AI implementation projects

TECHNICAL SKILLS

Electrical Engineering	: Electrical Wiring, Panel Building, AutoCAD Electrical, ETAP, LabVIEW. Product Safety Testing Electrical Measurement Electrical Troubleshooting Compliance Evaluation Technical Reporting Control Systems
Control Systems	: PLC, Instrumentation, PID, Industrial Drives, Sensor Integration, Troubleshooting
Embedded Systems	: Microcontrollers, Arduino, MATLAB/Simulink, Proteus
Tools & DevOps	: Git, Linux, Jenkins, Docker, GitHub Actions
Programming Languages	: Python, JavaScript, Java, C++, Matlab.
Web Technologies & Tools	: HTML5, CSS3, NextJS, ExpressJS, React, Laravel, Git, Linux, Jenkins.

LANGUAGES

- Indonesian (Native)
- English (Professional Working Proficiency)