

Erdhy Ernando Davis

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Education

Universität Duisburg-Essen

June 2025

B.Sc – Bachelor Electrical and Electronics Engineering

Universitas Indonesia

Expected August 2025

S.T – Bachelor Electrical Engineering

GPA: 3.60/4

Organization: TEDxUniversitas Indonesia

Projects

Ohmwerk – Electrical Engineering Resource Directory

ohmwerk.xyz

- Designed and developed a full-stack directory website using Next.js 15, PostgreSQL, Drizzle ORM, and TanStack Query to serve curated educational content for electrical engineering students
- Deployed on a self-hosted VPS using Dokploy and Traefik; configured domain, SSL certificates, and automated deployments, gaining practical DevOps and self-hosting experience
- Optimized SEO and performance using server-side rendering (SSR), structured metadata, and caching strategies to improve discoverability and load times

Robotic System Interface using Raspberry Pi 4B

github.com/ErdhyErnando

- Reduced system complexity by migrating from dual-laptop setup to single Raspberry Pi architecture, decreasing hardware requirements while improving accessibility
- Designed and developed full-stack web application with role-based authentication system and real-time monitoring capabilities using Flask, WebSocket, and Chart.js
- Architected modular file management system supporting Python script executions, enabling remote control and monitoring of robotic systems through interactive GUI

Lieferspatz Food Delivery – Database Course Project

github.com/ErdhyErnando

- Developed responsive frontend in React for customer and restaurant owner roles, enabling seamless menu management, restaurant search by PLZ, and order placement
- Implemented CRUD functionality for restaurant menus and integrated filtering options on the main page, enhancing user experience by improving search efficiency
- Coordinated version control and code integration on GitHub, facilitating smooth collaboration with team members across different devices and ensuring project continuity

Experience

IT Coordinator, Nera Aventour – Bogor, Indonesia (Remote)

Mar 2024 – Mar 2025

- Developed and deployed a "Coming Soon" website with a functional form to streamline vacation request processes. Configured email accounts and Google Workspace services to enhance communication and collaboration.
- Implemented Notion as a centralized platform to manage and optimize various operational tasks, improving overall efficiency and productivity.
- Provided technical support and troubleshooting for various IT-related issues, ensuring smooth operation of company systems and tools.

Skills

Programming: Python, C++, HTML, CSS, JavaScript/TypeScript, SQL

Web Development: React, Next.js, Flask, SQLite, PostgreSQL

Technologies: Git, Linux, Docker, ESP32, Raspberry Pi, Self-hosting, Domain Management

Language: Bahasa Indonesia (Native), English (IELTS 7.0), German (B1)