VANNY MINANDA

About Me

I hold a PhD with a strong research background in algorithm optimization, data analysis, and programming. Additionally, I have skills in data sourcing, database management, and parameter tuning for algorithmic processes.

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✉️ vminanda@gmail.com

🏠 Hsinchu, Taiwan

LANGUAGE

- Bahasa
- English
- Chinese (basic)

SKILLS

- Programming
- Big Data Analysis
- Database Management
- Data Visualization
- Optimization
- Algorithm Development

JOB EXPERIENCE

Postdoctoral Research Fellow
Yuan Ze University, Taiwan
May 2025 - Present

EDUCATION

Yuan Ze University, Taiwan
Doctoral in Industrial Engineering and Management
2019-2024

Yuan Ze University Taiwan
Master in Industrial Engineering and Management
2017-2019

Tarumanagara University, Indonesia
Bachelor in Industrial Engineering
2012-2015

FUNDED RESEARCH PROJECTS

Preliminary Research on the Monitoring and Collection of Medical Waste in Far Eastern Memorial Hospital
2022-2024
I developed an IoT-powered system to monitor hospital medical waste in real-time, reducing hazardous exposure for medical staff. The system tracks waste bin levels across various hospitals in Taiwan and displays the data on a web-based dashboard for efficient monitoring and timely disposal

National Science and Technology Council Project
Automatic Detection and Collection Routing on Medical Waste
2022-2024
I develop a system based on Metaheuristic Algorithm to dynamically schedule hospital waste collection route in real-time

Apparel Demand Forecasting Software
Far Eastern New Century
2020-2021
I developed a Python software that leverages a mathematical algorithm to predict demand uncertainties for an apparel supplier, specifically addressing the impact of COVID-19 on supply chain fluctuations

AWARDS

2024 - Gold Award for Academic Achievements

2024 - First Place in Dissertation Competition (IEOM 2024, Australia)

2024 - The 114th Phi Tau Phi Honorary Membership Taiwan in recognition of outstanding academic performance and achievements