

Dzulfikar Ats Tsauri

📍 Indonesia ✉ dzulfikar.at@gmail.com 📞 +6285156160345 🌐 Dzulfikar Ats Tsauri 🔗 dzulfikar.com

Profile

Solution Engineer with 5+ years of experience in digital manufacturing. Skilled in **Web Development, Siemens Opcenter Execution, Mendix, and ArcstoneMES**. Experienced in full-cycle development, deployments, change requests, and issue resolution. Background in **Web, IoT, and cloud platforms (AWS, Azure, Cloudflare)** building scalable MES solutions.

Professional Experiences

Opex Consulting Group

Acting Product Lead

Nov 2025 – Present
Remote, Jakarta

- Product Lead for **OpexMX** a modern CMMS platform, responsible for technical architecture, product strategy, and end-to-end delivery. Built using an opinionated, high-quality modern stack, designed for scalability, hybrid/on-prem deployments, and maintainability.
- Leading project planning, roadmap development, and execution, ensuring alignment between engineering, operations, and business objectives.

Solution Engineer

Jul 2025 – Present
Remote, Jakarta

- Delivering MES solutions using Siemens Opcenter Execution, Opcenter EX PR, and Mendix — covering configuration, deployment, customization, integration, and cross-functional collaboration with manufacturing teams.

Albéa (PT. Techpack Asia), IoT Developer

Mar 2023 – Jul 2025
Semarang, Indonesia

- Led the end-to-end design and budgeting of IoT architecture, integrating ESP32, MQTT, and Node-RED for real-time monitoring of 200+ machines across Asia, **driving a 30% improvement** in uptime while optimizing deployment costs.
- Optimized and managed a project budget of \$120,000, reducing hardware and infrastructure costs by 25% while maintaining system performance and scalability across 200+ machines.

Arcstone Pte. Ltd 🌐, MES Deployment Engineer

Nov 2023 – Feb 2025
Remote, Singapore

- Led full-cycle MES deployment for 3+ manufacturing clients, aligning tech solutions with business goals and achieving 100% on-time delivery within allocated budgets.
- Coordinated with cross-functional teams (DevOps, QA, Client IT) to deploy robust MES solutions, reducing post-launch issues by 40% and enabling system scalability across facilities.
- Delivered technical demos and solution walkthroughs to non-technical stakeholders, resulting in 3 signed contracts and full executive buy-in by clearly mapping MES capabilities to business impact.

PT. Hexa Daya Solusi 🌐, Industrial Automation Engineer

May 2022 – Dec 2022
South Tangerang, Indonesia

- Built integration layer for multiple PLC & devices to MES system.
- Built and deployed MQTT + ModbusTCP energy monitoring system, enabling 20% reduction in energy waste and providing real-time analytics across multiple industrial units.
- Oversaw installation and commissioning of IoT nodes, ensuring >99% network uptime and seamless data collection for centralized dashboards.

PT. Azka Mulia International 🌐

Engineering Supervisor

Jan 2022 – Mar 2022
Surabaya, Indonesia

- Supervised a 5-person engineering team, reducing machine downtime by 30% via proactive optimization and streamlined maintenance scheduling.
- Implemented condition-based maintenance model, reducing unplanned outages by 40% and extending machine life expectancy.
- Increased machine capacity by up to 50%.

Maintenance Engineer

Jul 2021 – Dec 2021
Surabaya, Indonesia

Projects

Pseudo MES, Freyabadi Indonesia Resolved long standing issues, improving performance, delivered several change requests.	2025 Jakarta
Material Validation SCADA, British American Tobacco (on 3 Departments) Integrated SAP and KV-8000 PLC via ModbusTCP to create a fault-free material validation system. Achieved 100% reduction in material mismatches. Deployed in Azure Cloud.	2023 – 2025
eAndon, Albea Group (Surabaya, Demak, Guangdong) Developed and deployed real-time machine monitoring and ticketing systems using ESP32, MQTT, and Node-RED. Reduced machine downtime by 30% and enhanced operational transparency.	2023 – 2025
eCountboard, Albea Group (Demak) Develop WebApp to monitor production counting detailed into hour to ensure rapid response, utilizing RaspberryPi, NodeRED, Next.js	2024 – 2025
Manufacturing Execution System, Fong's Engineering Singapore Tailored arc.ops solution for end-to-end MES solution, integrating with Microsoft Dynamics via RESTful API & CNC Machines via OPC-UA, Fanuc Focas, and Modbus	2024
Lumileds Singapore, Equipment Maintenance System Tailored arc.ops maintenance module to track maintenance activities	2024 – 2025
MES - Material Traceability, ASM Front-End Manufacturing Singapore Pte Ltd Implemented RFID-enabled traceability system integrated with SAP to ensure precise tracking and reduce operational errors in manufacturing workflows.	2024
MES - System Integration, PT. Indolakto Utilizing AVEVA Edge, NodeRED, PLC Modicon M221 to integrate with floor devices (PLCs, Coding Printers, Weighings)	2022
Voltrus - Ultralight SCADA 🔗, https://voltrus.id Built a ultralight SCADA yet powerful with all features highly requested	2026

Education

Institut Teknologi Sepuluh Nopember 🔗 , <i>Applied Bachelor of Engineering</i> <ul style="list-style-type: none">• Majoring in Automation Engineering Technology.• GPA : 3.51 of 4.00.• Final Project Field : IoT & AI	2018 – 2022 Surabaya, Indonesia
---	------------------------------------

Awards

Silver Medal in Japan Design, Idea, & Innovation Expo, WIIPA (World Invention Intellectual Property Associations)	20 Aug 2021
Bronze Medal in Kontes Robot Sepak Bola Humanoid KRI, Pusat Prestasi Nasional	2020
12 Awards in FIRA Roboworldcup 🔗 , FIRA (Federation of International Robot-Sport Association)	2019

Certificates

AWS Certified Cloud Practitioner - 2023 🔗 — Amazon Web Service
Google IT Automation with Python - 2022 🔗 — Issued by Google

Publications

Fault Prognosis System on Face-Mask Body Machine with Adabelief-Backpropagation Neural Network 🔗 , Politeknik Negeri Malang	2023
Carbon Monoxide and Methane Gas Identification System 🔗 , IEEE	2020