

Dzulfikar Ats Tsauri

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Profile

Solution Engineer with 4+ years of experience in digital manufacturing. Skilled in **Siemens Opcenter Execution, Mendix, MES integration, and Web Development**. Experienced in full-cycle development, deployments, change requests, and issue resolution. Background in **IoT and cloud platforms (AWS, Azure, Cloudflare)** supporting scalable MES solutions.

Professional Experiences

Opex Consulting Group, MES Solution Engineer ✉

Jul 2025
Remote, Jakarta

- Led Internal Product Development
- Resolved long-standing issues in a pseudo-MES project using **Mendix low-code platform**, improving performance, stability and usability.
- Delivered several **change requests** and enhancements for ongoing MES-related projects.
- Involved in **early-stage preparation** of Siemens Opcenter Execution implementation (requirement analysis, technical documentation, initial setup).

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 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 ✉

Business Development Officer

Jan 2022 – Mar 2022
Surabaya, Indonesia

- Designed and led go-to-market strategy, increasing client engagement by 30% in new industrial segments within 3 months.
- Boosted online sales revenue by 25% through strategic marketplace optimization and targeted promotions.

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 – present
eCountboard, Albea Group (Demak) Develop WebApp to monitor production counting detailed into hour to ensure rapid response, utilizing RaspberryPi, NodeRED, Next.js	2024 – present
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
Side Projects, Next.JS, Cloudflare Services Develop multiple side projects leveraging cloudflare services such as Worker, Pages, D1 Database, R2 Durable Object, KV.	

Education

Institut Teknologi Sepuluh Nopember, Applied Bachelor of Engineering <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
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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