

# 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 ☈

- 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).

Jul 2025

Remote, Jakarta

### Albéa (PT. Techpack Asia), IoT Developer

- 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.

Mar 2023 – Jul 2025

Semarang, Indonesia

### Arcstone Pte. Ltd, MES Deployment Engineer ☈

- 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.

Nov 2023 – Feb 2025

Remote, Singapore

### PT. Hexa Daya Solusi, Industrial Automation Engineer ☈

- 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.

May 2022 – Dec 2022

South Tangerang, Indonesia

### PT. Azka Mulia International ☈

#### Business Development Officer

- 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.

Jan 2022 – Mar 2022

Surabaya, Indonesia

#### Engineering Supervisor

- 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%.

Jan 2022 – Mar 2022

Surabaya, Indonesia

#### Maintenance Engineer

Jul 2021 – Dec 2021

Surabaya, Indonesia

## Projects

<b>Pseudo MES</b> , Freyabadi Indonesia	2025
Resolved long standing issues, improving performance, delivered several change requests.	Jakarta
<b>Material Validation SCADA</b> , British American Tobacco (on 3 Departments)	2023 – 2025
Integrated SAP and KV-8000 PLC via ModbusTCP to create a fault-free material validation system. <b>Achieved 100% reduction in material mismatches</b> . Deployed in Azure Cloud.	
<b>eAndon</b> , Albea Group (Surabaya, Demak, Guangdong)	2023 – present
Developed and deployed real-time machine monitoring and ticketing systems using ESP32, MQTT, and Node-RED. <b>Reduced machine downtime by 30%</b> and enhanced operational transparency.	
<b>eCountboard</b> , Albea Group (Demak)	2024 – present
Develop WebApp to monitor production counting detailed into hour to ensure rapid response, utilizing RaspberryPi, NodeRED, Next.js	
<b>Manufacturing Execution System</b> , Fong's Engineering Singapore	2024
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	
<b>Lumileds Singapore</b> , Equipment Maintenance System	2024 – 2025
Tailored arc.ops maintenance module to track maintenance activities	
<b>MES - Material Traceability</b> , ASM Front-End Manufacturing Singapore Pte Ltd	2024
Implemented RFID-enabled traceability system integrated with SAP to ensure precise tracking and reduce operational errors in manufacturing workflows.	
<b>MES - System Integration</b> , PT. Indolakto	2022
Utilizing AVEVA Edge, NodeRED, PLC Modicon M221 to integrate with floor devices (PLCs, Coding Printers, Weighings)	
<b>Side Projects</b> , Next.JS, Cloudflare Services	
Develop multiple side projects leveraging cloudflare services such as Worker, Pages, D1 Database, R2 Durable Object, KV.	

## Education

<b>Institut Teknologi Sepuluh Nopember</b> , Applied Bachelor of Engineering	2018 – 2022
• Majoring in Automation Engineering Technology. • GPA : 3.51 of 4.00. • Final Project Field : IoT & AI	Surabaya, Indonesia

## Awards

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

## Certificates

<b>AWS Certified Cloud Practitioner - 2023</b>	— Amazon Web Service
<b>Google IT Automation with Python - 2022</b>	— Issued by Google

## Publications

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