

MUHAMMAD REZKI DWIJAYANTO

IT Manager · Digital Transformation Leader · AI & Industry 4.0 Expert

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Batam, Riau Islands,
Indonesia

7+ Years

IT & Engineering
Experience

55+ Apps

Enterprise Portfolio
Managed

4 Countries

Deployment Footprint
(APAC/EU)

**Zero
Downtime**

SAP & Server Migrations

PROFESSIONAL SUMMARY

Results-driven IT Manager and Digital Transformation Leader with 7+ years of cross-industry experience spanning enterprise manufacturing, ERP systems, smart factory IoT, and AI-powered automation. Graduated Cum Laude with a Master of Management in Digital Operations. Proven track record in:

- ▶ Leading and mentoring cross-functional IT engineering teams (5–10 headcount), standardizing workflows and accelerating individual delivery velocity by up to 3×
- ▶ Managing 55+ enterprise applications and 4 production-grade servers across multinational environments (Indonesia, Singapore, East Asia, Europe) with zero-downtime transitions
- ▶ Executing complex SAP ECC → SAP S/4HANA migrations; architecting 3-tier NGINX/Redis enterprise infrastructure; enforcing ISO/IEC 27001 cybersecurity compliance
- ▶ Aligning IT strategy with business objectives across manufacturing, warehouse, supply chain, and quality domains — spearheading INDI 4.0 plant certification preparation
- ▶ Pioneering AI/ML integration into operational systems — predictive quality monitoring, automated defect detection, and AI-driven auto-coding development frameworks

Experienced communicator and stakeholder partner at executive level across APAC, East Asia, and European leadership. Committed to continuous improvement, talent development, and delivering measurable business impact through technology.

PROFESSIONAL EXPERIENCE

Digital Transformation Leader (IT Manager Equivalent)

PT. YAGEO TMSS Indonesia (formerly Telemecanique Sensors / Schneider Electric) | Jul 2023 – Present • Batam, Indonesia

Led the entire IT function during a high-stakes corporate spin-off from Schneider Electric, inheriting a fragmented ecosystem of 55+ applications and reestablishing IT governance from the ground up.

- ▶ **Managed and mentored a team of 5 IT engineers and analysts — introduced standardized backend/frontend development frameworks, cutting individual development cycles by 66% and raising overall team throughput by 3×. Conducted performance reviews and created professional development pathways.:** Team Leadership & Development
- ▶ **Designed and operated a 3-tier enterprise architecture (NGINX load balancer + API gateway / Node.js microservices + RabbitMQ / MSSQL + MongoDB); ensured 99.9%+ uptime across all production systems.:** Infrastructure Oversight
- ▶ **Executed the full migration of 55+ enterprise applications and 4 secure production servers during the Schneider–Yageo corporate transition with zero missing applications, zero disrupted business processes, and 100% data segregation and integrity.:** Zero-Downtime Migration
- ▶ **Spearheaded migration from SAP ECC (Schneider environment) to Yageo SAP S/4HANA standard: led integration design for WM, MM, and PP modules; consulted and validated migration outcomes with all departments; coordinated globally with APAC and European Yageo HQ.:** SAP S/4HANA Migration (Year 2)
- ▶ **Developed and executed multi-year IT roadmap: standardized fragmented legacy stack (PHP / .NET / Raw Node.js / ASP.NET) into unified Node-RED microservices architecture, Next.js & Flutter frontend standard, and dual MSSQL/MongoDB data strategy.:** IT Strategy & Roadmap

- ▶ **Enforced IT security policies in accordance with ISO/IEC 27001; conducted regular internal audits and risk assessments; ensured data privacy compliance across all enterprise systems.:** Security & Compliance
- ▶ **Spearheading INDI 4.0 plant certification for the Batam facility — aligning shop-floor IoT data governance with national industry standards; implemented real-time MQTT/REST API integration for full traceability from production line to warehouse.:** Smart Manufacturing & INDI 4.0
- ▶ **Deployed AI-driven process monitoring and advanced Statistical Process Control (SPC) across PCBA and sensor production lines, reducing quality defects by 15%. Built PCBA ESD Gate Monitoring, Defect Library & Layer Audit Platform, and Warehouse Management System.:** AI-Driven Quality Improvement
- ▶ **Managed professional relationships with external IT vendors and service providers; acted as primary liaison between IT, executive leadership, and global HQ — translating technical concepts into board-level business outcomes.:** Vendor & Stakeholder Management

Senior Programmer (Assistant Manager)

Sinarmas Sentra Cipta | Jan 2023 – Jul 2023 • Jakarta, Indonesia

Drove digital transformation initiatives in agri-tech and enterprise process automation.

- ▶ Architected and deployed a low-code digitalization platform, reducing workflow processing time by 30% and enabling non-technical business users to digitize operational processes independently.
- ▶ Designed computer-vision robotic systems for automated agricultural harvesting — improving pick accuracy and reducing reliance on manual labor by integrating ML models with physical actuators.
- ▶ Oversaw secure REST API integrations across enterprise-grade systems; collaborated with R&D, supply chain, and IT to ensure solution alignment and on-time delivery.

Senior Application Engineer

Schneider Electric | Jan 2022 – Dec 2022 • Batam, Indonesia

Developed and deployed enterprise applications for East Asia supply chain and warehouse operations.

- ▶ Built and deployed supply chain and warehouse management systems for East Asia operations, improving logistics efficiency by 20%; received monthly recognition for Quality Mindset and performing duties beyond normal scope.
- ▶ Completed Schneider Electric Global Supply Chain Training at Level 3 across 7 disciplines: Business Intelligence, Data Advanced Analytics, MES, RPA, Statistical Analytics, Database, and AGV.
- ▶ Developed scalable enterprise applications using .NET and Node.js; coordinated end-to-end testing, rollout, and hypercare support to minimize implementation downtime.

Full-Stack Developer

Panasonic Industrial Devices | Dec 2019 – Dec 2021 • Batam, Indonesia & Singapore

Cross-border enterprise application development supporting manufacturing ERP systems.

- ▶ Enhanced SAP-integrated ERP systems with secure financial approval workflows and real-time shipment tracking modules used across Batam and Singapore operations.
- ▶ Drove corporate security compliance initiatives — performed security gap analysis, implemented hardening measures, and aligned local systems with global Panasonic IT standards.
- ▶ Supported cross-border operational consistency: ensured seamless system parity, data synchronization, and user support across two country deployments.
- ▶ Published research and presented at the International Conference on Applied Engineering (2019): Real-Time Object Recognition for Football Field Landmark Detection Based on Deep Neural Networks.

Programmer

Cladtek Corporation | Jul 2019 – Nov 2019 • Batam, Indonesia

Industrial automation development for oil & gas manufacturing processes.

- ▶ Developed custom PLC-integrated automation machines for hydrostatic testing and annealing processes; digitized defect detection using AI vision models, significantly reducing manual inspection errors.
- ▶ Built HMI interfaces for operators, improving process visibility and reducing cycle time on critical manufacturing workflows.

Freelance Developer & IT Consultant

Independent | Jan 2015 – Present • Batam, Indonesia

Delivered custom technology solutions for SMEs and enterprise clients across multiple industries.

- ▶ Designed and delivered 10+ custom websites, ERP modules, and mobile applications for retail, logistics, and manufacturing clients.
- ▶ Developed an IoT-based GPS fleet tracking system for palm oil logistics operations, improving real-time fleet visibility and reducing idle time.
- ▶ Provided IT strategy consulting to SMEs seeking to digitize manual business processes.

TECHNICAL SKILLS

Leadership	Team Management, IT Strategy & Roadmap, Budget & Cost Management, Performance Reviews, Stakeholder Engagement, Vendor Management
Infrastructure	NGINX (Load Balancer & API Gateway), Redis, Linux Server Administration, Cloud Services (AWS/Azure concepts), Docker, CI/CD Pipelines, 3-Tier Architecture
Security	ISO/IEC 27001, Cybersecurity Policy Enforcement, Risk Assessment, Internal Audit, Data Privacy Compliance, PCBA ESD Compliance
ERP / SAP	SAP S/4HANA (WM, MM, PP Modules), SAP ECC, SAP Integration Design, Warehouse Management, Supply Chain Systems
Backend	Node.js, TypeScript, ASP.NET / .NET Core, Python, Node-RED Microservices, REST API, MQTT, RabbitMQ, PHP
Frontend	Next.js, React, Flutter, UI/UX Standardization, Component Architecture
Databases	MSSQL, MongoDB, MySQL, Database Administration, ETL, Analytics Pipelines
AI & Data	Machine Learning, Deep Learning, Predictive Modeling, Computer Vision, Statistical Process Control (SPC), Big Data Analytics, AI Model Deployment
Manufacturing	PLC/SCADA Integration, IIoT, MQTT Shop-Floor Integration, INDI 4.0 / Industry 4.0, PCBA Production Systems, Automated Inspection
Governance	ITIL Process Familiarity, IT Governance, Project Management (end-to-end), Agile/Continuous Improvement, ISO Compliance
Networking	CCNA (Routing & Switching), TCP/IP, Network Architecture, VPN, Firewall Configuration
Languages	Bahasa Indonesia (Native) · English (Fluent, Business — EPrT Score 497)

EDUCATION

M	Master of Management — Digital Operations Telkom University, Indonesia	Cum Laude
B	Bachelor of Engineering — Mechatronics Politeknik Negeri Batam, Indonesia	<i>Engineering</i>

CERTIFICATIONS & PROFESSIONAL TRAINING

Technical & Industry Certifications

CCNA Routing & Switching Essentials (Merit)	Cisco Networking Academy / Politeknik Negeri Batam	2019
CCNA Introduction to Networks (Merit)	Cisco Networking Academy / Politeknik Negeri Batam	2019
English Proficiency Test (EPtT) — Score: 497	Telkom University Language Center	2024–2027

Schneider Electric Global Supply Chain Training — Level 3 (All 7 Disciplines)

Business Intelligence	Schneider Electric	2022
Data Advanced Analytics	Schneider Electric	2022
Manufacturing Execution Software (MES)	Schneider Electric	2022
Robotic Process Automation (RPA)	Schneider Electric	2022
Statistical Analytics	Schneider Electric	2022
Database Administration	Schneider Electric	2022
Automated Guided Vehicle (AGV)	Schneider Electric	2022

LinkedIn Learning — Leadership & Technology Series

AI Foundations: Thinking Machines	LinkedIn Learning	2021
Cloud Architecture & Cloud Computing: Core Concepts	LinkedIn Learning	2021
Digital Transformation & Industry 4.0 Foundations	LinkedIn Learning	2022
RPA, AI & Cognitive Technologies for Leaders	LinkedIn Learning	2022
Machine Learning for Marketing	LinkedIn Learning	2022
Big Data in the Age of AI	LinkedIn Learning	2021
Introduction to Digital Twins & Quantum Computing	LinkedIn Learning	2022
Blockchain Basics	LinkedIn Learning	2021
Leadership: Digital Leadership, Strategic Agility & Innovation	LinkedIn Learning	2022
Business Collaboration in the Modern Workplace	LinkedIn Learning	2022

AWARDS & RECOGNITION

SAP S/4HANA Migration Recognition	PT. Yageo TMSS Indonesia	2024
Employee Recognition Award	PT. Yageo TMSS Indonesia	2023
Quality Mindset — Monthly Recognition	Schneider Electric	2022
Performing Extra Duties Beyond Normal Assignment	Schneider Electric	2022
Top 10 Finalist — International Hackathon (BYOC)	Politeknik Negeri Batam	2019
2nd Place — IT Quiz Competition	HMTI FAIR	2013
2nd Place — Blogger Design Competition	HMTI FAIR	2013
3rd Place — Vocational School Physics Olympiad	Regional Competition	2014

PUBLICATIONS

Real-Time Object Recognition for Football Field Landmark Detection Based on Deep Neural Networks	Int'l Conference on Applied Engineering	2019
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VOLUNTEER & COMMUNITY EXPERIENCE

- ▶ Youth Mosque Association, Jabal Arafah Mosque — Community organizer and youth program coordinator (2019–2021)
 - ▶ Student Art Association, Politeknik Negeri Batam — Creative and cultural initiatives (2017–2018)
 - ▶ Sports Committee, Politeknik Negeri Batam — Event organization and coordination (2016–2017)
 - ▶ Student Association for Environmental & Adventure Activity, Politeknik Negeri Batam — Leadership and outdoor program development (2016–2019)
 - ▶ Muslim Spiritual Organization, Vocational High School 5 Batam — Founding member and active organizer (2012–2013)
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