

FURQON EDY MUHAMMAD, S.T., M.Sc., DIC

EPC Technology Solutions Superintendent — Project Improvement, Business Intelligence & Digital Transformation

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PROFESSIONAL SUMMARY

Technology Solutions and Project Improvement leader with 10+ years across state-owned enterprise, EPC, mining and infrastructure. Bridges engineering execution with data and finance—building KPI systems, Power BI intelligence platforms, and continuous-improvement programs that move efficiency, productivity and margin. Proven in multi-country delivery (Indonesia, Pakistan, Papua New Guinea, UK), post-merger integration, project controls (EVM/S-Curve), and enterprise digital roadmaps. CFI-certified in Business Intelligence & Data Analysis (BIDA) and Financial Modeling & Valuation (FMVA).

CORE COMPETENCIES

Business Intelligence & Dashboards (Power BI, DAX, Power Query) • Project Controls & Earned Value (CPI/SPI, S-Curve) • Cost Control & Estimating (SAP CJI3/CJI5, Pronamics) • Data Engineering & Pipelines • Continuous Improvement (DMAIC, Lean/LPS) • Digital Transformation & Change Management • Digital Twin & IoT (Veerum, GPS/FMS telemetry) • Construction Management (Procore) • Financial Modelling & Valuation • Market & Competitor Intelligence • ESG & Sustainable Transport

PROFESSIONAL EXPERIENCE

PT. Petrosea Tbk — EPC Technology Solutions Superintendent / Lead Technology Solution

Jakarta & Project Sites (Indonesia, Pakistan, Papua New Guinea) | 2023 – Present

- Built INAPROC market-intelligence platform aggregating 30,000+ tenders across 18 institutions, sizing a Rp475T EPC market for competitor benchmarking and Joint-Operation targeting.
- Architected the Reko Diq (Pakistan) executive project-control dashboard (EVM, S-Curve, SHE), standardizing biweekly BOD reviews and surfacing CPI 1.22 / SPI 0.70 diagnostics.
- Led post-merger integration analytics for HBS (Papua New Guinea): standardized fleet performance across 3 sites (41 assets, 124,000+ hours) and linked utilization to P&L margin.
- Delivered Awakmas Operational Excellence & Recovery suite—driving 31 critical recovery actions to completion and diagnosing EWH, fuel ratio and downtime root causes.
- Deployed Vale Pomalaa project-control & operational-intelligence suite, Digital Twin (Veerum), FMS driver-safety analytics, and multi-project Procore KickStart rollout.
- Co-developed the 2025/2026 EPC Digital Roadmap and Hackathon, standardizing reporting across BP, Vale, Levee, K004 and Awakmas.

PT. Waskita Karya (Persero) Tbk — Research & Innovation, Engineering Division

Jakarta, Indonesia | 2021 – 2022

- Lead author, IKN new-capital project clusterisation study with an interactive Power BI capability-mapping dashboard.
- Co-authored Lean Construction (Last Planner System) implementation introducing Percent Plan Complete (PPC) with MS Project + Power BI.
- Co-authored R&D Requirement Analysis (185 respondents, TOWS matrix) and the Customer Satisfaction market-research diagnostics for the BOD.

Earlier Engineering & Cost-Control Roles

PUPR (Covid Hospital cost control & risk), Kemenhub (LRT South Sumatera), Nusa Konstruksi Enjiniring (Gaia Hotel), LAPI ITB & PT Bhumikuindo Anika (toll-road feasibility & DED) | 2016 – 2021

- Cost control and risk management for emergency Covid-19 hospital delivery (Batam, RSCM).
- Engineering support and cost control on the South Sumatera LRT; PM reporting for the Gaia Hotel development.
- Transport feasibility (West Kalimantan) and Detailed Engineering Design (Yogyakarta–Solo Toll Road) using Autodesk Civil 3D.

EDUCATION

Imperial College London — M.Sc. Transport (with Distinction), Diploma of Imperial College (DIC) | United Kingdom, 2024

CERTIFICATIONS

CFI — Business Intelligence & Data Analyst (BIDA) • CFI — Financial Modeling & Valuation Analyst (FMVA) • CFI — ESG Specialization • Columbia — Construction Management • BCG — Modern-Day Business • ASTEKINDO — Ahli Manajemen Proyek (Project Management)

TECHNICAL TOOLKIT

Power BI, DAX, Power Query, Power Automate • SQL, Python, R (Apollo) • SAP (CJI3/CJI5), Pronamics, Primavera/XER • AppSheet, Power Apps, SharePoint • Procore, Veerum (Digital Twin), Autodesk Civil 3D • SPSS, EMME • HTML/CSS/JavaScript

AWARDS & RECOGNITION

- 4th Winner — Petrosea Innovation Day 2023 (container-to-structure circular bridge innovation: 26% cost cut, 21-day acceleration, 70 tons steel reused).
- 1st Winner — Waskita Awards 2021, Best Creative Ideas (Social Innovation); 2nd Winner 2022 — Digital Integration; Nominee — Market Intelligence.
- 2nd Winner — Kementerian Pariwisata 2017, National Tourism Branding & Logo (North Kalimantan).

LEADERSHIP & COMMUNITY

Deputy Head of Dept., Mata Garuda Britania & Irlandia (LPDP alumni) • Alumni, Think Policy & Institut Harkat Negeri (Leadership B3) • Company Representative, Indonesia Infrastructure Research & Innovation • Volunteer, Syamsi Dhuha Foundation & Sibades • Head of External Relations, HMS ITB. LPDP PK-212 scholarship recipient.