

Christopher Roberto, ST., PMP®

Engineering Asst. Manager | Reliability Leader | Project Delivery
Bogor (Indonesia) | +6282182019567 | christopberto@gmail.com | LinkedIn | Github

SUMMARY

Engineering leader with 6+ years leading maintenance, reliability, and multi-discipline technical projects in large-scale manufacturing. Experienced in developing maintenance strategies (preventive, predictive, corrective), coordinating sizeable engineering teams, and delivering projects end-to-end (scope–schedule–budget) with strict safety and quality compliance. Strong background in utilities (boiler, compressor, WTP), electrical power distribution & instrumentation, PLC/automation (Siemens TIA Portal, Allen-Bradley Studio 5000/FactoryTalk, Omron CX-Programmer), and spare-parts/inventory control. PMP® certified; adept at risk & issue management, cost control, audit readiness, and executive reporting. Currently pursuing a Master's Degree in Statistics & Data Science (2026–Present). Based in Bogor City (WFO).

CORE COMPETENCIES

1. Project Management
   Scope/Schedule/Budget (E2E) • Multi-project Delivery • Risk & Issue Management • RAID Logs • Change Control • Earned Value • Project Closeout & Lessons Learned • Compliance/Quality Management (client standards) • Procurement & Vendor Management • Subcontractor Coordination
2. Engineering & Operations
   Reliability Engineering • Preventive/Predictive Maintenance • Process Automation • Utility Systems (Boiler, HVAC, WTP) • CAPA/Root-Cause (5-Why, Fishbone) • KPI Dashboards & Performance Monitoring • SAP Maintenance Digitalization • Workshop/Machining Workflows
3. Communication & Leadership
   Client-facing PM • Stakeholder Management • Executive Reporting • Cross-functional Facilitation • Remote Team Leadership • Technical Storytelling

TECHNICAL SKILLS

Planning & Reporting	: MS Project, Excel (Gantt, EVM, dashboards), Tableau, Looker Studio
Data & Tooling	: Python (Pandas, Numpy, Scipy, Statsmodels, Scikit-Learn), SQL Git
Systems (Electrical)	: PLC Platforms – Siemens TIA Portal, Allen Bradley (Studio 5000 / Factory Talk) Omron (CX-Programmer); SAP PM (Maintenance/work orders); Power Distribution; SCADA
Databases	: PostgreSQL, MongoDB
Methods	: DMAIC, FMEA, Root-Cause Analysis, DOE, Regression, Time-Series Analysis, SPC/QC Checks

SELECTED PROJECTS

High-HP Motor Overhaul/Replacement *Dec 2023 – Present*

Led hands-on planning and execution for critical motor overhaul/replacement in the 250–1500 HP range, including shutdown coordination, LOTO, alignment, vibration baseline, commissioning, and documentation. Established acceptance criteria and return-to-service checklist to minimize ramp-up risk.

Impact: Reduced (MTTR) by 50%-60% and expedited safe return-to-service for production-critical assets, Improved reliability baseline (post-overhaul vibration & temperature trends) and lowered recurrence of electrical/mechanical faults.

Tools: MS Project, SAP PM (WO/notifications), Dial indicator, Vibration analyzer

.

Predictive Maintenance Optimization – PT. Goodyear Indonesia *Jan-2025 – Jan 2026*

Developed predictive maintenance strategy using reliability analysis (MTBF & MTTR) and data-driven insights to anticipate failures and reduce unplanned downtime. Integrated statistical baselines and alerting for critical equipment; improved maintenance planning, spare-part readiness, and reduced unplanned failures.

Impact: Reduced unplaned breakdown up to 25%, increase planning accuracy, maintain spare part availability

Tools: PM (PM schedule/notifications), Vibration, and Thermography.

Maintenance Digitalization – PT. Goodyear Indonesia *Dec 2023- Dec 2024*
Implemented barcode system for compound monitoring and traceability, reducing minor stops and improving inventory accuracy by 20%.
Impact: Enhanced maintenance efficiency and reduced downtime.
Tools: Node.js, SQL, PLC Automation, SAP

Plant Optimization & Cost Saving Program – PT. Goodyear Indonesia *2024-2026*
Led TPM-based improvement projects to reduce breakdowns and optimize spare part usage, achieving significant cost savings and improved reliability.
Impact: Increased equipment uptime and reduced maintenance costs.
Tools: MS Project, SAP

Autonomous Maintenance System – PT. Indofood CBP *June 2023 – Nov 2023*
Developed and implemented an autonomous maintenance system to improve operator ownership, reduce equipment failures, and increase machine availability.
Impact: Reduce minor stops, reduce machine breakdown, increase maintenance efficiency, increase skills
Tools: SAP, Excel, Situational Leadership

Boiler System Improvement – PT. Indofood CBP *June 2022 – June 2023*
Optimized steam and condensate systems, reducing fuel consumption by 40% and water usage by 50%.
Impact: Achieved major efficiency gains and compliance with sustainability goals.
Tools: SAP, Excel

Energy Optimization Project – PT Indofood CBP *Jan 2022 - June 2022*
Designed and installed control valve and auto-balancing flow system for chiller, reducing electricity consumption by 20%.
Impact: Lowered operational costs and improved sustainability.
Tools: MS Project

Water Consumption Saving Project – PT Indofood CBP *Jan 2021 - Dec 2021*
Successfully reduced plant water consumption to 0% through rain-water harvesting system, process optimization, leakage elimination, and strict water-management controls.
Impact: Lowered operational costs and improved sustainability.
Tools: MS Project

WORK EXPERIENCES

PT. Goodyear Indonesia Tbk. **Bogor, Indonesia**
Assistant Manager Engineering Department *December 2023 – Now*

- Led data-driven reliability initiatives; applied statistical methods to reduce downtime and stabilize process capability.
- Performed data validation/cleaning on maintenance and process datasets; standardized QC checks for better decision-making.
- Built reporting & visualization layers to monitor equipment performance and improvement outcomes.
- Coordinated Engineering, Production, and Quality to execute continuous-improvement projects with measurable impact.

Selected impacts:

1. Implemented barcode verification & poka-yoke for raw-material mixing; improved tracking accuracy and reduced material waste by ~15%
2. Developed and deployed a predictive maintenance system using statistical baseline monitoring and early-warning indicators, reducing unexpected equipment failures and improving maintenance planning.
3. Designed and implemented an automation system for the chemical slurry process, increasing operational consistency, reducing manual intervention, and enhancing data reliability for quality control.

4. Drove plant optimization initiatives that enhanced overall efficiency and supported audit/compliance readiness.

PT. Indofood CBP Sukses Makmur Tbk. **Palembang, Indonesia**
Department Head, Engineering *December 2019 – November 2023*

- Directed maintenance programs and major engineering projects with strong emphasis on data integrity and root-cause analysis.
- Established standard procedures for data cleaning/validation in performance reporting; improved analysis reliability.
- Built executive dashboards and story-driven reports to communicate trends, risks, and ROI of improvement projects.
- Led a 25-person cross-functional team; delivered cost reduction and compliance targets.
- Developed and implemented an autonomous maintenance system to improve operator ownership, reduce equipment failures, and increase machine availability.
- Enhanced performance and energy efficiency of key utility assets—including Boiler, HVAC, and Water Treatment Plant—through data-driven optimization and targeted reliability improvements.
- Led the digitalization of the SAP maintenance system, improving work order accuracy, speeding up reporting workflows, and increasing transparency of maintenance planning and asset performance.

Selected impacts:

1. Reduced operational downtime by ~75% via skill enhancement, data-guided initiatives, and preventive actions
2. Managed budgets and vendor performance using KPI-based analytics and risk-adjusted prioritization.
3. Led the digitalization of the SAP maintenance system, improving work-order accuracy, workflow speed, and visibility of asset performance.
4. Digitalized workshop and machining parts management, enabling traceable work orders, reducing manual reporting, and improving spare-part turnaround time
5. Successfully reduced plant water consumption to 0% through process optimization, leakage elimination, and strict water-management controls.

EDUCATIONS

IPB University (Institut Pertanian Bogor) **Bogor, Indonesia**
Master's Degree in Statistics & Data Science (Ongoing) *January 2026 – Present*
Focus: Data Automation, IOT, Statistical Modelling, Data Validation, and Data Visualization

Institut Teknologi Sepuluh Nopember **Surabaya, Indonesia**
Bachelor of Engineering Physics. GPA: 3.30 (Passed) *August 2015 – August 2019*

ADDITIONAL PROGRAMS

Hacktiv8 Bootcamp Batch X **Jakarta, Indonesia**
Comprehensive Data Analyst Program. Score: 91.2% (Passed) *Agustus 2025 – November 2025*

Allen-Bradley Studio 5000 / Factory Talk **Cikarang, Indonesia**
Bevos training center, PLC Training program *May 2025 – July 2025*

PT Indofood CBP Management Bootcamp Batch V **Purwakarta, Indonesia**
Management Trainee Program. Score: 90% (Passed) *July 2023 – September 2023*

Safety Awareness & IBPR (K3) **Palembang, Indonesia**
PT Indofood CBP, Safety & K3 training program *February 2023 – March 2023*

Internal Auditor (ISO 19011:2018) & FSMS ISO 22000 **Palembang, Indonesia**
PT. Indofood CBP, Internal Auditor and Food Safety Management System *January 2022 – June 2022*

CERTIFICATIONS

PT. Goodyear Indonesia
Situasional Leadership II — *Issued on January 2026*
Certificate: *ID-EL2397V060623* — *No expiration date*

Hacktiv8
Comprehensive Data Analyst Program — *Issued on November 2025*
Certificate: *ID-ce51a8e6-54c9-436a-81a5-0c736ab2b4e5* — *No expiration date*

PT. Goodyear Indonesia
Six-Sigma Yellow Belt — *Issued on September 2025*
Certificate: ID-40098302 — *No expiration date*

Project Management Institute
Project Management Certification Program — *Issued on May 2023*
Certificate: ID-3460012 — *Expire in May 2029*