

MUHAMMAD NURIL ISLAM

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Engineering graduate with experience in manufacturing quality engineering, process optimization, and data analysis. Skilled in quality management system, statistical problem solving, Lean continuous improvement, and cross-functional collaboration to improve product quality and operational performance. Proficient in Microsoft Office for developing digital systems and transforming operational data into actionable insights.

EDUCATION

Institut Teknologi Sepuluh Nopember

Surabaya, Indonesia

Bachelor of Engineering Physics

2021-2025

- GPA: 3.41/4.00
- Contributed to research and community service projects focused on the application of smart materials.
- Undergraduate Thesis: Developed and validated a colorimetric sensor for lard detection.

SKILLS

Technical: Quality Management Systems, Data Analysis, Lean Continuous Improvement, Process Optimization

Software: Microsoft Office (Excel–Pivot Table and Data Visualization, Power BI–Digital Reporting and Dashboard)

WORK EXPERIENCES

British American Tobacco (BAT) Indonesia

Malang, Indonesia

QA/QC Staff

May 2026-Present

- Analyze production quality performance using operational data to identify process deviations, maintaining over 95% of quality measurements within control limits and process variation below a standard deviation of 0.3.
- Ensure measurement system reliability through instrument verification and quality troubleshooting, maintaining measurement deviations less than 0.3 acceptance threshold.
- Evaluate production quality trends through daily inspections and defect analysis to support product compliance and achieve over 90% defect-free products.
- Collaborate with Production and Engineering teams to investigate product and process issues, conduct Root Cause Analysis (RCA), implement Corrective and Preventive Actions (CAPA), and monitor improvement effectiveness.
- Maintain standardized quality documentation, including Standard Operating Procedures (SOPs) and Work Instructions (WIs), while providing technical guidance to ensure process consistency and audit readiness.

British American Tobacco (BAT) Indonesia

Malang, Indonesia

QA Project Support Intern

Dec 2025-May 2026

- Led the design and implementation of a digital laboratory waste management system, improving material traceability, strengthening audit readiness, and training the quality team on system utilization and maintenance.
- Conducted Work Process Improvement (WPI) initiatives for quality operations using Functional Analysis and 7 QC Tools, identifying process losses, prioritizing critical work processes, and reducing NVAA by 20%.
- Developed automated digital reporting systems using Microsoft Excel and Power BI to improve operational excellence in quality inspection and sample management.
- Analyzed laboratory testing data and trend patterns to optimize inspection strategies, reducing inspection scope by 20% and sampling frequency by 25% while maintaining quality performance.

ORGANIZATION EXPERIENCES

ITS Advanced Functional Materials Laboratory

Surabaya, Indonesia

Laboratory Assistant-Head of Research Division

Aug 2022-Jul 2025

- Conducted laboratory testing across 20+ research projects, analyzing and validating experimental data to support the development of 4 application-ready prototypes.

HopeHelps ITS

Surabaya, Indonesia

President

Dec 2022-Dec 2024

- Led strategic partnerships with 15 campus organizations and 3 survivor advocacy organizations while delivering anti-sexual violence awareness programs to 200+ participants.

Society of Renewable Energy ITS

Surabaya, Indonesia

Project Leader

Aug 2022-Jul 2023

- Managed a cross-functional team of 20 members in developing an innovative solar cell prototype, achieving 21% laboratory efficiency through systematic experimentation and iterative process improvement.

COURSES

Quality Management Foundations—Issued by LinkedIn

Jul 2026

Six Sigma Foundations—Issued by Project Management Institute (PMI)

Jul 2026

Lean Six Sigma Foundations—Issued by Project Management Institute (PMI)

Jul 2026