

Emmanuel Ricohermoso III, Dr.-Ing.

38 Rue Marguerite de Rochechouart, 75009 Paris, France | ✉ e.ricohermoso@averconsult.com

☎ +33650847286 | 🌐 www.averconsult.com | [LinkedIn Profile](#) | [Google Scholar](#)

Professional Summary

Experienced Continuous Improvement Specialist with a Ph.D. in Materials Science and over a decade of expertise in process optimization, nanotechnology, and advanced materials research. Skilled in Lean Six Sigma, project management, and supply chain strategies, driving cost reductions and operational excellence. Proven track record in leading cross-functional teams, implementing sustainable solutions, and securing ISO certifications. Adept at combining technical expertise with strategic planning to deliver measurable improvements across industries.

Skills

- Project Management
 - Supply Chain Management
 - Strategic Planning
 - Process Optimization
 - Cross-Functional Leadership
 - Stakeholder Engagement
 - Root-Cause Analysis
 - High-Temperature Materials
 - Electron-Beam Lithography
 - Plasma Dry Etching (ICP-RIE)
 - Thin-Film Deposition
 - Cleanroom Operations
 - Data Analysis / Statistical Analysis
 - Industrial Conveying/Drying Systems
 - Nanofabrication
 - Raman Analysis
 - X-ray Diffraction
 - Atomic Force Microscopy
 - SEM/EDS, TEM, EELS
 - HPLC
 - FTIR
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Professional Experience

Solutions & Continuous Improvement Consultant | 08/2024 - Current

AVER Consulting - Paris, France

- Collaborated with a multinational manufacturing company to apply materials science expertise, resolving production challenges and enhancing quality standards.
- Developed and implemented Lean Six Sigma strategies, leading to a 30% improvement in process efficiency and a 20% reduction in operational costs.
- Optimized manufacturing workflows, resulting in enhanced product performance and increased customer satisfaction.
- Utilized data-driven methodologies to analyze production processes, implementing solutions that significantly reduced defects and variability.

Operations & Global Technology Manager (UK, USA, GERMANY) | 02/2023 - 07/2024

AHS Automated Handling Solutions - Germany

- Optimize stock management using 5S and GEMBA, improving client relations and ensuring timely availability of essential equipment through strategic supplier negotiations.
- Oversee the development and growth of new facilities, managing renovations, process design, and operational setup. Ensure on-time delivery and boost productivity while adhering to HSE protocols.
- Enhance global testing procedures across multiple locations by applying Kaizen and Lean methodologies. Integrate processes into platforms like HubSpot to reduce turnaround times, and improve efficiency.
- Advise clients in Food & Beverage, Chemicals, Pharmaceuticals, and Recycling on optimizing product performance and operational efficiency.
- Lead and mentor cross-functional teams, promoting a culture of continuous improvement and collaboration. Encourage knowledge sharing and best practices across departments to drive innovation .

Scientific Researcher | 10/2019 - 09/2022

Technische Universität Darmstadt - Germany

- Developed high-temperature sensor technologies, reducing experimental timelines by 25%.
- Operated in cleanroom environments with proficiency in electron-beam lithography, plasma dry etching (ICP-RIE), and thin-film deposition techniques.
- Authored multiple peer-reviewed articles and presented findings at international conferences, influencing industry practices.
- Mentored 10 Master's students, enhancing their technical and analytical skills.
- Collaborated on interdisciplinary projects, integrating materials science and electrical engineering to innovate sensor applications.

Procurement & Materials Manager | 03/2015 - 07/2017

Household Development Corp. - Philippines

- Negotiated supplier contracts, cutting costs by 50%, and improving efficiency by 25%.
- Directed the nationwide centralized procurement team, streamlining operations, optimizing supplier management, and reducing costs through strategic sourcing and contract negotiations.
- Established quality assurance systems, reducing defects, and strengthening supplier performance.
- Redesigned the procurement-to-pay process using Lean Six Sigma methodologies, reducing processing time by 40%, and eliminating \$2 million in annual maverick spend.

Process Engineer | 03/2014 - 03/2015

Vishay - Philippines

- Implemented Lean Six Sigma methodologies, leading to a 40% reduction in production cycle time and a 20% improvement in product quality.
- Conducted comprehensive root cause analyses on recurring process issues, resulting in a 50% decrease in production defects and a 10% increase in overall yield.
- Developed and executed a Six Sigma-based quality improvement program, training over 50 staff members and achieving a 25% reduction in process variability across key production metrics.
- Managed a \$5M budget for upgrading legacy control systems to a state-of-the-art distributed control system (DCS), resulting in a 15% increase in production capacity and improved safety metrics.

Education

Technische Universität Darmstadt - Germany | Ph.D.

Materials Science, 09/2022

- High-temperature giant piezoresistivity of microstructured SiOC-based strain gauges
- GPA: Summa Cum Laude, Best Researcher

Institut Polytechnique de Grenoble - France | M.S.

Materials Science and Engineering

GPA: Magna Cum Laude

University of the Philippines - Philippines | B.S.

Materials Engineering

Key Achievements

- **Lean Six Sigma Impact:** Enhanced manufacturing efficiency by 35%, driving cost savings and productivity gains.
- **Operational Excellence:** Delivered 20% cost reductions and streamlined workflows through process optimization.
- **ISO Certifications:** Spearheaded ISO 9001 and 14001 audits, ensuring compliance and sustainability.
- **Research Innovation:** Pioneered strain gauge technologies, reducing timelines by 25% and improving durability.

Certifications

Lean Six Sigma Black Belt **(2020)**

SAP ERP Specialist **(2015)**

Languages

English: Fluent
German: Advanced

Filipino (Tagalog): Native
French: Intermediate

Publications & Presentations

- Published peer-reviewed papers on high-temperature sensors, polymer compatibility, and nanofabrication.
- Presented findings at global conferences, driving advancements in materials science and process optimization.