

NIEL PATRICK TANCINCO

Materials & Process Engineer | Registered Mechanical Engineer

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PROFESSIONAL SUMMARY

Registered Mechanical Engineer with experience qualifying 6+ alternative material categories for semiconductor packaging production, authoring qualification procedures and SOPs from the ground up for green-compliant process transitions in support of cost-reduction and alternative-sourcing initiatives. Brings additional depth in precision quality control from serving as final-stage reviewer for autonomous vehicle LiDAR data; independently identifying edge-case and missing/erroneous annotation errors, enforcing strict adherence to technical documentation standards, and maintaining accuracy under high-volume, deadline-driven conditions. Seeking to apply this combined process rigor and independent quality ownership to a growth-oriented engineering role.

CORE COMPETENCIES

Engineering: Material qualification, process engineering, test procedure development, SOP authoring, technical documentation, Google Workspace (Docs, Sheets, Slides, Drive, Calendar), Obsidian, Microsoft Office (Word, Excel, Powerpoint, Outlook)

AI & Data Quality: LiDAR sensor data annotation review (autonomous vehicle systems), dataset integrity, systematic error identification, defect pattern analysis, escalation workflows

Quality Assurance: Qualification report writing, defect analysis, incoming material inspection, disposition, cross-functional QA coordination

Production Support: Parameter setting for production runs, process improvement, solder cleaning, molding compound qualification

Supplier Management: Technical coordination with international suppliers, defect resolution, specification compliance

Currently Developing: Python

PROFESSIONAL EXPERIENCE

Relevant Experience

Material Qualifications Engineer — 2017–2020

Team Pacific Corporation | Philippines | Semiconductor Packaging Industry

- Authored end-to-end qualification procedures for Vigon and Micronox green-compliant cleaning agents from the ground up, adapting supplier technical recommendations to existing production equipment and producing all SOPs and supporting documentation for the process transition.
- Qualified 6+ alternative material categories — including leadframes, soldering materials, substrates, molding compounds, and lead dips — in support of cost-reduction and alternative-sourcing initiatives, executing full qualification cycles independently from test planning through final report and disposition.
- Produced technical qualification reports at a minimum cadence of 2 per month, maintaining traceable, audit-ready records for major programs including IXYS semiconductor lots.
- Coordinated directly with international suppliers including Kyocera on technical specifications and defect resolution to maintain qualification timelines.
- Set production run parameters for new materials during qualification trials, enabling smooth transition from qualification to full production.

Additional Experience

AI Data Quality Specialist (Contract) — 2020–2026

Remotasks | Remote (Scale AI Platform) — LiDAR Annotation for Autonomous Vehicle Systems

- Attained and sustained final-review, top-tier reviewer status across 5–10 large-scale LiDAR annotation project pipelines — earned through a verified track record of consistent, accurate output at every prior review stage, and maintained as the final quality checkpoint before client delivery.

- Independently identified edge-case, missing, and erroneous annotations across high-volume, deadline-driven review cycles, applying structured QA methodology to protect downstream model integrity for autonomous vehicle training data.
- Operated with full independent ownership of quality decisions and no direct supervisory oversight, maintaining strict adherence to evolving technical documentation standards across a multi-year engagement.

Relevant Training / Internship Experience

Cost-Estimation & HVAC Systems Intern

Pacific Air-conditioning and General Services, Inc. | Nov 2014 – Mar 2015

- Supported cost-estimation for HVAC piping systems across multiple client projects, contributing to project quotation and scope-of-work accuracy
- Conducted site visits to monitor installation progress and verify work against project specifications
- Managed minor customer inquiries regarding the air-conditioning products of the company

Technical Inspection Intern

CB Richard Ellis, Inc. | Jul 2014 – Oct 2014

- Prepared technical inspection and preventive maintenance reports for air-conditioning systems across a portfolio of managed real estate properties
- Documented equipment condition and service findings to support facilities and maintenance decision-making

Design Support Intern

LG Electronics | Jul 2016 – Oct 2016

- Used LG's proprietary load-calculation software to input building and area specifications and determine cooling load requirements for centralized ACU/AHU systems and water-cooling towers
- Mapped air-conditioning unit distribution across floors and rooms based on calculated load, tracking remaining cooling capacity throughout the planning process
- Supported onboarding and training of new contractors on air-conditioning system procedures

REMOTE WORK READINESS

Internet: Primary: Globe Fiber 900 Mbps | Backup: Smart 5G mobile hotspot

Power Backup: Generator access in building

Equipment: Desktop Computer | Dual monitors | Noise-cancelling headset | Webcam

Workspace: Dedicated home office | Quiet environment | Professional video-call background

Availability: Full-time | Part-time | Flexible across US (EST/PST), UK (GMT), AU (AEST) time zones

EDUCATION

Registered Mechanical Engineer (RME)

Philippine Mechanical Engineer Licensure Examination | 2017 | General Average: 86.10

Bachelor of Science in Mechanical Engineering

Rizal Technological University | Philippines | 2017

LANGUAGES

English: *Professional*

Filipino: *Native*