

Dongjae Yi

Technical Product Manager | HW/SW Systems | Requirements, Documentation, Delivery

Technical Product and Program Manager with 13+ years delivering complex HW/SW systems across autonomy, last-mile delivery robotics, automotive platforms, and EV safety in APAC and Europe. Skilled in translating customer workflows into clear requirements, prioritizing features, and driving execution from discovery through validation, release, and iteration, grounded in systems engineering, integration and verification (HIL/SIL), and data-driven decision-making.

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📍 Singapore

🌐 [linkedin.com/in/dongjaeyi](https://www.linkedin.com/in/dongjaeyi)

TECHNICAL SKILLS

Product requirements and specs	PRDs, user stories, acceptance criteria, edge cases, trade-offs	Product documentation	feature briefs, UX flows, release notes, product guides, decision logs
Lifecycle execution	discovery, scoping, prioritization, development support, test planning, release gating, iteration	Issue management	bug triage, risk tracking, stakeholder follow-up, closure discipline
Systems and Robotics Engineering	HW/SW integration, robotics prototype integration, autonomy (sensor fusion, trajectory/control), test strategy and coverage, risk management	Analytics for Product	KPI definition, dashboards, defect trend analysis, operational insights

TOOLS

Jira, Confluence, MS Project, Notion, Git, Tableau, Power BI, Python, SQL, Simulink, dSPACE

WORK EXPERIENCE

Technical Project Manager

JIOS Aerogel (EV Battery Safety Startup)

08/2024 - 04/2025

Singapore

- **Program Delivery:** Led end-to-end delivery of EV battery safety programs, aligning R&D, suppliers, validation milestones, and OEM expectations across multiple regions.
- **Requirements and Verification:** Defined system-level requirements and verification approach, driving validation execution, risk tracking, and issue closure to protect schedule and readiness.
- **Data-Driven Improvement:** Analyzed test results with researchers to identify root causes and translate findings into concrete design and process improvements.

Founding Member

The Ice Bath Club (Wellness Startup)

01/2025 - 07/2025

Singapore

- **Operational Reliability:** Owned uptime and safety for chiller and filtration systems, running structured daily issue triage and resolution.
- **Vendor Management:** Managed vendors and maintenance contracts, improving reliability and cost efficiency through tighter service workflows and standards.
- **Business Analytics:** Built dashboards to track usage, retention, and pricing performance, converting insights into operational and customer experience improvements.

WORK EXPERIENCE

Technical Project Manager

Continental Automotive

01/2022 - 05/2023

Singapore

- **Robotics Systems Engineering:** Supported a last-mile delivery robot program by driving system-level integration and verification planning, aligning sensors, compute, and SW components to meet functional and safety expectations.
- **Prototype Execution:** Drove concept-to-prototype delivery for sensor fusion and trajectory control initiatives, improving prototype performance by 15% through integration updates and fusion tuning.
- **Cross-Site Delivery and Readiness:** Coordinated engineering and validation teams across sites, resolving HW/SW integration risks, tracking open issues, and aligning test evidence to demo and release gates.

System Requirement Engineer

Continental Automotive

08/2020 - 12/2021

- **Requirements Ownership:** Owned 300+ system and software requirements, translating customer needs into clear specs with traceability, version control, and change management.
- **Input Consolidation:** Consolidated inputs across engineering, QA, validation, and OEM stakeholders into actionable stories, acceptance criteria, and clarified edge cases.
- **Requirements Analytics:** Built dashboards and queries to improve requirement visibility and reduce churn by 15%, accelerating alignment and decisions.

System Test Manager/ Engineer

Continental Automotive Systems Corporation & Vitesco Technologies

01/2011 - 07/2020

- **Validation Platform Leadership:** Managed a shared HIL platform supporting 9 concurrent ECU projects, optimizing utilization and ensuring release-level test coverage.
- **Root-Cause and Reliability:** Led system validation and root-cause analysis using simulation and test data, driving fixes and reliability improvements across teams.
- **Quality and Automation:** Improved regression throughput via automation while maintaining governance aligned with ASPICE and ISO 26262 expectations.

EDUCATION

Master of Science in Analytics

Georgia Institute of Technology

01/2022 - 05/2025

Georgia, United States

Bachelor of Science in Mechanical Engineering

Sungkyunkwan University

03/2002 - 02/2011

Suwon, South Korea

LANGUAGES

Korean

Native or Bilingual Proficiency

English

Full Professional Proficiency

Japanese

Limited Working Proficiency

Mandarin Chinese

Elementary Proficiency