Dongjae Yi (이동재)

Senior Systems Engineering and Integration Manager | Technical Program Manager

Systems engineering and integration leader with 12+ years of experience delivering safety-critical electro-mechanical and software systems. Strong in requirements, interfaces, integration planning, and end-to-end V&V, coordinating across stakeholders to manage risk (FMEA/RCA) and drive issues to closure. Master's in Analytics, using data-driven methods to improve system performance and reliability.

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TECHNICAL SKILLS

Systems Engineering & Integration	Requirements, interfaces, integration planning	**V&V / Integration Testing**	Test strategy, IFAT/SIT, acceptance, defect closure
Risk & Assurance	RCA, FMEA, compliance in regulated programs	**Stakeholder & Contractor Management**	Cross-contractor coordination, alignment, escalation
Delivery & Scheduling	Roadmaps, dependencies, milestones, execution tracking	**Data & Tools**	Python/SQL, DOE, KPI analytics, Jira/Confluence/MS Project

WORK EXPERIENCE

Technical Project Manager
JIOS Aerogel (EV Battery Safety Startup)

08/2024 - 04/2025　　　　　　　　　　　　　　　　　　　　　　　　*Singapore*

Highlights

- **System Integration & Validation** : Led material benchmarking and pilot adoption programs with global EV OEMs (Korea, Japan, Europe), validating performance, compliance, and system-level requirements.
- **Cross-Functional & Supplier Coordination** : Drove integration across R&D, suppliers, and customers to deliver thermal protection and reliability solutions on schedule.
- **Risk, Quality & Vendor Management**: Optimized procurement and vendor processes, balancing cost, quality, and manufacturability for safety-critical battery materials.

Founding Member
The Ice Bath Club (Wellness Startup)

01/2024 - 07/2025　　　　　　　　　　　　　　　　　　　　　　　　*Singapore*

Highlights

- **Technical Systems Implementation** – Designed and deployed chiller and filtration systems, monitoring performance with real-time data to ensure safety, reliability, and uptime.
- **Cross-Functional Problem Solving** – Coordinated technicians, vendors, and team members to troubleshoot system issues and implement practical fixes in a fast-paced startup environment.
- **Startup Agility & Execution** – Thrived in a dynamic, resource-constrained environment, balancing technical delivery with operational demands and developing resilience under pressure.

Professional Development
Georgia Institute of Technollogy

06/2023 - 12/2023　　　　　　　　　　　　　　　　　　　　　　　　*Singapore (USA)*

Highlights

- Advanced coursework in statistical analysis, machine learning, and optimization, applying quantitative methods to system modeling, simulation, experimentation (DOE), and data-driven engineering decision-making.

WORK EXPERIENCE

Technical Project Manager
Continental Automotive

01/2022 - 05/2023   *Singapore*

Highlights

- **Advanced Sensor Fusion Programs**: Oversaw development of predictive control systems, coordinating engineers working on Kalman filters and XGBoost models for multi-sensor trajectory data.
- **System Integration Leadership**: Directed cross-functional alignment of hardware, software, and data pipelines, managing project timelines from architecture design through prototype validation.
- **Global Stakeholder Management**: Facilitated collaboration between teams in Singapore and France to define AV system requirements, monitor test execution, and conduct technical reviews.

System Requirement Engineer
Continental Automotive

08/2020 - 12/2021

Highlights

- **Requirements Management**: Oversaw 300+ system requirements for connectivity and gateway solutions, ensuring reliable communication across complex distributed networks.
- **Protocol Development**: Coordinated design of diagnostic and communication protocols to support secure over-the-air updates and system interoperability.
- **Integration & Compliance Leadership**: Defined ISO-aligned specifications and collaborated with QA and validation teams to resolve system-level integration issues and support successful rollout.

System Test Manager/ Engineer
Continental Automotive Systems Corporation & Vitesco Technologies

01/2011 - 07/2020

Highlights

- **System Validation Leadership** – Directed large-scale validation programs for embedded control systems, ensuring system reliability and accuracy across diverse operating conditions.
- **Test Automation & Efficiency Gains** – Oversaw implementation of model-based design and automated validation workflows, improving test coverage and reducing validation cycle times.
- **Cross-Regional Team Management** – Led international teams across Korea, Japan, and Germany to deliver safety-critical programs, ensuring compliance with global functional safety and quality standards.

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	English	Japanese	Mandarin Chinese
Native or Bilingual Proficiency	*Full Professional Proficiency*	*Limited Working Proficiency*	*Elementary Proficiency*