

Jeyaganesh Ratnasingam MBA, PMP, CSM

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Experienced Technical Leader

Engineering | Operations | Project Management

A hands-on senior leader with +25 years of experience across various industries (i.e. Semiconductor, Data Storage, Injection Molding, Polymer, Rubber, and Maritime). Proven track record of combining operational, engineering, project management, and leadership abilities that align business and strategic objectives to meet customer expectations.

CERTIFICATIONS

Cambridge Institute for Sustainability Leadership – Sustainable Finance

Certified Scrum Master (CSM) | Project Management Professional (PMP)

Lean Six Sigma Green Belt (LSSGB)

Areas of Expertise

- Board Alignment
- Stakeholder Management
- Change Management
- Enterprise Risk Management
- Project Management Office (PMO)
- New Product Development (NPD/NPI)
- Staffing & Resource Management
- Contract Management (FIDIC)
- Sustainability
- Design of Experiments (DOE)
- Cross-Functional Leadership
- Proof of Concept

Professional Experience

Port of Tanjung Pelepas Sdn Bhd, Gelang Patah (Feb 2019 — Present)

General Manager

Engineering | Operations | Project Management

As part of the management team, the role entails strategic engineering and operational projects receiving technical expertise, quality assurance, contract management, and project management support.

- Led project teams supporting strategic driven initiatives across equipment, civil/infra greenfield/brownfield related projects with investments of more than RM100mil.
- Delivered Quay Crane (QC) and Rubber Tyre Gantry (RTG) equipment procured back in late 2019 to meet record moves by obtaining record volumes of 9.85 and 11.2 million Twenty-Foot Equivalent Units (TEU) in 2020 and 2021 respectively by adhering to specifications, project scope, risk management and actively engaging cross-functional teams, Original Equipment Manufacturer (OEM) & Consultant(s)/Contractor(s) on key milestones for the duration of the project.
- Led investment papers for the Board of Directors (BoD) and Executive Committee (EXCO).
- Championed LEAN tools on the new facility (i.e. maintenance workshop) and green energy fleet deployment by facilitating Value Stream Mapping (VSM) workshops identifying “As-Is” and “To Be” models.
- Lead Pilot/Proof Of Concept (POC) Autonomous/Automation project(s), that delivered comparable or improved operational and safety metrics.

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- Under Sustainability, the Environment, Social, and Governance (ESG) initiatives, lead pilot studies on decarbonization efforts on green energy and other relevant alternatives on terminal-related equipment with a reduction of 57% of carbon emission (Scope 1) and 66% of operating costs.
- Assess, identify gaps, and suggest relevant training to enhance staff's competency in project management, technical-related areas, contract management, and quality assurance capabilities. Coach and mentor, the team.
- Champion enterprise risk management across key strategic projects.
- Manage pre and post-contract of the approved investments.

Entegris (M) Sdn Bhd, Kulim (Nov 2016— Feb 2019)

Senior Manager, Project, and Engineering, Asia Operations

Engineering | Project Management | Operations

Led engineering department responsible for design, development, validation, and production support for Microcontamination Control (MC) Business Unit segment focused on New Product Development (NPD) and Engineering-related activities such as equipment improvements, capacity expansions, redundancy plans, and cost reductions.

- Oversaw Engineering Department to deliver key strategic priorities and goals that align with overall business objectives (i.e. MC Revenue > \$650M, RIR < 1, OTS > 95%, Cycle Time Improvement > 15%, etc.).
- Improved utilization of engineering staff by transferring design cognizance locally.
- Provide strategic foresight to respond to business opportunities and prioritize product development projects with market potential.
- Negotiated cost reduction for facilitation work on a gas micro contamination control solution project by US\$129k or 18% by practicing Value Engineering and not compromising product integrity.
- Led automation projects that not only delivered agreed-upon set criteria such as product quality requirements but also modified the profile of the workforce and met financial goals.
- Led cost savings efforts of US ~\$250k/year by setting up internal capability for laser weld system by mitigating logistics, tariff costs, and improved lead time on the supply chain.
- Performed employee recruitment and retention, performance appraisal with supported continuous development, and proposed appropriate training programs.
- Ensured all relevant EHS guidelines were strictly adhered to in projects and engineering activities.

Ansell (M) Sdn Bhd, Kulim (Mac 2015 — Oct 2016)

Senior Project Manager, PMO, Industrial Glove Business Unit (IGBU)

Project Management Office (PMO) | Engineering | Operations

Led New Product Development (NPD) and Operations Strategic projects compliance with established PMO processes.

- Contributed to the development of the PMO; defined project management processes, including those related to requirements management, change control, and user acceptance testing.
- Captured 8% improvements in Key Performance metrics (KPI) in OTIF (On Time and in Full) shipment—renegotiated commitment with business units and improved changeovers using Lean methodologies.
- Phased out or obsoleted Prop65-based products that are shipped to the US, mainly California within a stipulated deadline with appropriate warning labels, whilst depleting or diverting raw material consumption for non-US destinations.
- Recommended and drove appropriate product transfer, capacity, and capability from global locations to the

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Kulim plant; expanded current products and eliminated unprofitable ones.

- Accountable for the effective and efficient allocation of and use of all assets, capital, and inventory with Sales & Operations Planning (S&OP).

Entegris (M) Sdn Bhd, Kulim (Jan 2011— Feb 2015)

Senior Project Manager

Asia Operations

The position supported project management, governance, best-in-class practices, and financial management activities across the region by increasing efficiency and effectiveness within Asia Operations (Taiwan, Korea, Japan & Kulim) and US sites.

- Successfully delivered projects worth US \$6M-\$10M on time and within budget over multiple phases using continuous scope management with clear communication, ensuring resource requirements were aligned, management of risks whilst maintaining change control, and strong governance across teams.
- Led project/product transfers that involved injection molding processes and assembly, low moisture resin selection activities, high purity corrosive chemical handling components, gas filtration, and purification, and Chemical Mechanical Planarization (CMP) brushes.
- Responsible for preparing the Project Charter, Scope document, Work Breakdown Structure (WBS), project proposal, project schedule, procedures for accomplishing program transfer, staffing requirements, and allocating available resources to various phases of the project in collaboration with senior management and key stakeholders.
- Managed and led teams to set up new or supporting facilities in compliance with DOSH & DOE policies and approved local governing bodies.
- Interface and continuously communicate with key Business Unit (BU) groups and field Application Engineers (AE) through the i2M (ideas to Market) stage gate review process throughout the product lifecycle management (PLM).
- Act as a center of competence for project management within the plant among the divisions, including updating and continually improving knowledge, process, and base of PMO and leveraging the knowledge, systems, and regional data to better deliver in global projects.

Western Digital (M) Sdn Bhd, Petaling Jaya (July 2008 — Dec 2010)

NPI Enterprise Group Section Head

New Product Introduction | Engineering

Responsible for managing New Product Introduction Program Management and Pilot Line Operations — developed project plans, mitigated risks, and managed forecasting, operations, and budgets. Led all testing, as well as process improvement initiatives.

- Regularly aligned with San Jose Engineering, Product Management, and Asia development teams to translate timely HDD new product launches to Asia sites.
- Qualified build sites (Malaysia/Thailand) for key customers such as Dell, EMC, Sun Microsystems, IBM, etc with supporting First Article Inspection (FAI), Out of Box Audit (OBA) & customer audits.
- Ensured all levels across the organization focused on providing customers with defect-free products and >90% On Time Delivery (OTD).
- Technical Lead for a team of engineers/technicians during all engineering/development phases through volume builds whilst meeting all manufacturing requirements.

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Renesas (M) Sdn Bhd (*formerly known as Intersil (M) Sdn Bhd*), Kuala Lumpur (Apr 2006 — June 2008)

Senior Product/Test Engineer

New Product Introductions | Engineering | Operations

Successfully led product/test transfer from Outsourced Assembly and Test (OSAT) facilities within the region based on the capacity and capability of the subcontractor. Assessed risks, identified issues, and monitored progress against the planned schedule to meet deadlines. Coordinated resources among the subcontractor team.

- Improved UPH (cycle time) on the ISL7516 device. Improvement in shipment from 71K to 79K.
- Improved test coverage & yield data for CS82C55A. Aim: VIH/VIL test coverage expanded and yield improved to 94% from 86%.
- Drove test yield improvement activities in collaboration with the subcontractor's engineering team. Platform(s) include Eagle ETS-364 and Teradyne J971.
- Standardized hardware inventory items (Testers, Probers, Handlers, etc) from subcontractors into a single database. Aim: For Intersil, Malaysia, and the US to plan for strategic engineering activities.
- Managed product technicians to work on the following key responsibilities:
 - Test time reduction and other similar UPH/Cycle Time Improvement activities.
 - Hardware builds and repairs to support production plans.
 - New product introduction, correlation, and qualification activities at subcontractor sites.

NXP Semiconductors (M) Sdn Bhd (*formerly known as Motorola Malaysia Sdn Bhd*), Petaling Jaya (Apr 2003 — Mar 2006)

Product Engineer

New Product Introductions | Operations

- Transferred new products on 32-bit microcontrollers (Automotive and Network products) from proto samples to pilot runs into the factory from the principal in Austin, Texas.
- Qualified "Pb free" (lead-free) qualification on PLCC, QFP & LQFP packages by validating reliability results from HTOL, BTB, MSL3, CSAM, etc. Verified results by product characterization over process voltage, temperature, and statistical data analysis.
- Qualified wafer doping process from POCL to Implant from Freescale fabs by validating Final Test results. Experienced throughputs increase from ~300 to 390-420/week of wafers.
- Identified Final Test technology to be included in the Test Manufacturing Capability Roadmap and formulated projects in developing such capability at the Subcon site(s).
- Led assembly activities across sub-contractors in Asia.
- Empower technicians to support cycle time improvements, hardware maintenance plans, and qualification activities.

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Seagate (S) Pte Ltd, Singapore (*formerly known as Maxtor Peripherals (S) Pte Ltd*), (Dec 1999 - Jan 2003)

Servo Write Engineer

Equipment Engineering

- Maintained all Servo Write testers across the plant on various New Product Introduction (NPI) initiatives and Legacy products. This entails setup, maintenance, troubleshooting, and repair of the equipment.
- Ensured best engineering practices were adopted during the entire project life cycle [Design, Build, Procurement, Final Acceptance Test (FAT), Installation, and Site Acceptance Test (SAT)] to meet required specifications before the product reaches full-scale production volume.
- Improved operating costs by approximately ~6% by qualification of new materials and/or suppliers.
- Reviewed Overall Equipment Effectiveness (OEE) and provided recommendations to improve them.
- Led the Auto Load Spindle into the manufacturing setup with 231mins downtime savings to production.

ON Semiconductor (M) Sdn Bhd (*formerly known as Motorola Semiconductor Sdn Bhd*), (Aug 1994 – Jul 1997)

Line Technician

Equipment Engineering | Operations

- Maintained and troubleshooted production line machines (i.e. wire bond -ICONN, pick & place-TENRYU) meeting downtime KPIs to achieve daily/weekly set targets for the RF power modules.
 - Ensured equipment downtime adhered to an agreed-upon target to sustain OEE commits.
 - Conducted vendor/engineering evaluation with engineers for production-related equipment.
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Education

- Masters in Business Administration (MBA) — University Malaya, Malaysia
 - BEng (Hons) Communication & Electronics Engineering — Northumbria University, Newcastle, UK
 - Diploma in Electronics Engineering — Tafe College, Malaysia
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Other Professional Development/Certification

- Teradyne J973 VLSI Test System Programming
- City & Guilds (C&G) – Electronics