

PERSONAL SUMMARY

Strategic and results-driven Process Engineer with a Bachelor's in Mechanical Engineering and a strong foundation in manufacturing process optimization and business process improvement. I have successfully led the setup and enhancement of production lines at Turkish Aerospace Malaysia and Sony EMCS Malaysia, delivering streamlined operations and measurable efficiency gains. My expertise includes driving cross-functional initiatives to redesign workflows, implement Lean principles, and automate processes that reduce costs and improve cycle times. With a proven ability to manage resources, vendors, and project timelines, I've developed and standardized operating procedures that elevate quality and consistency. Passionate about continuous improvement, I specialize in identifying operational bottlenecks and transforming them into scalable, high-impact solutions that align with business goals and foster sustainable growth.

CERTIFICATIONS

Lean Six Sigma Green Belt Certification <ul style="list-style-type: none">Council For Lean Six Sigma Certification (CSSC)	May 2025
IPC-A-610 Comprehension Training <ul style="list-style-type: none">IPC Class Training course work conducted by DreamCatcher Consulting	April 2025
AIAG-VDA PFMEA <ul style="list-style-type: none">British Standard Institute (BSI) PFMEA course workCredential ID: ENR-01254061	Dec 2022
Graduate Engineer <ul style="list-style-type: none">Registered with Board of Engineers Malaysia (BEM) as Graduate Engineer - Mechanical	Dec 2018

AWARDS

Best Engineer - Sony Malaysia Production Sector <ul style="list-style-type: none">Best Engineer Award for TV Production Sector.Good attendance, fast action to complete any given task.Fresh ideas for improvement to design (part design and new jigs for assembly)	Aug 2021
Special Appreciation Award – Sony EMCS Malaysia Sdn Bhd <ul style="list-style-type: none">High Technical Detail Award.Detected part issue in turn avoided mass market recall and rework (N > 1000 units).	Oct 2020

EDUCATION

Universiti Teknikal Malaysia Melaka (UTeM) <ul style="list-style-type: none">Bachelors in Mechanical Engineering	Jul 2014 – Nov 2018
Universiti Teknikal Malaysia Melaka (UTeM) <ul style="list-style-type: none">Diploma in Mechanical Engineering	Sept 2011 – Apr 2014

KEY ACHIEVEMENTS

- Pioneered the establishment of the Manufacturing Operations Division at TUSAS Malaysia, architecting end-to-end process flows from initial design through to serial production, ensuring seamless scalability and operational efficiency.
- Engineered and launched high-capacity electromechanical assembly lines at TUSAS Malaysia, strategically designed to support current production demands while enabling future expansion and adaptability.
- Implemented a robust ERP-driven warehouse and material planning system at TUSAS Malaysia, enhancing inventory accuracy, material traceability.
- Led the deployment of advanced Robotic Assembly Lines at Sony EMCS Malaysia, integrating automated monitoring systems for real-time tracking of delivery timelines, station cycle times, and operator performance—driving significant digital transformation (DX) improvements.
- Lead comprehensive re-layout and process balancing initiatives at Sony EMCS Malaysia, optimizing workflow efficiency and delivering measurable gains in productivity and throughput.

WORK EXPERIENCES

Process Engineer – Manufacturing Lead Turkish Aerospace Malaysia Sdn Bhd

Nov 2023–Present

Strategic operations leader with a proven track record in establishing and scaling business processes within high-compliance industries. Demonstrated expertise in cross-functional program management, vendor governance, budget oversight, and continuous process improvement. Adept at translating technical requirements into actionable business strategies, ensuring alignment with organizational goals and regulatory frameworks.

Responsibilities

- **Established Operational Infrastructure:** Spearheaded the setup of the operations department at Turkish Aerospace Malaysia, aligning business processes with aerospace industry standards to support long-term strategic growth.
- **Process Optimization & Execution:** Led end-to-end process development from planning through delivery, integrating LEAN methodologies, VSM and Kaizen to enhance efficiency, reduce cycle times, and ensure compliance with ISO9001 and AS9100D standards.
- **Cross-Functional Program Management:** Directed cross-departmental initiatives including product development approvals, production line setup, and quality assurance planning, ensuring seamless execution across engineering, procurement, and operations.
- **Vendor Governance & Risk Mitigation:** Conducted comprehensive vendor due diligence and capability assessments to ensure alignment with corporate standards. Oversaw supplier onboarding and process validation for both mechanical and electrical components.
- **Budget & Resource Management:** Managed capital and operational expenditures (CAPEX & OPEX), aligning procurement and tooling investments with project timelines and ROI objectives.
- **Business Process Design:** Developed and implemented scalable workflows by utilising from design to production, ensuring traceability, accountability, and compliance with internal and external audit requirements.
- **KPI Development & Performance Monitoring:** Proposed and implemented key performance indicators (KPIs) to measure departmental efficiency, quality, and throughput, supporting data-driven decision-making and continuous improvement.
- **Standardization & Documentation:** Translated complex technical drawings into standardized operating procedures (SOPs), enabling consistent execution and knowledge transfer across teams.
- **Regulatory Compliance & Quality Assurance:** Defined and executed inspection protocols for avionics in accordance with MIL-STD, ensuring product integrity and regulatory compliance at every stage of the value chain.

Senior Process Engineer Sony EMCS Malaysia Sdn Bhd

Dec 2018 – Oct 2023

Led the design and implementation of a full robotic line (FRL) for TV production, applying LEAN methodologies and Kaizen to drive cost efficiency and process optimization. Managed large-scale, cross-functional projects with a focus on operational excellence, resource planning, and continuous improvement. Collaborated across departments to develop scalable workflows, enhance quality assurance, and optimize manpower utilization. Actively contributed to strategic initiatives including feasibility studies, SOP development, and change management processes to support new product introductions and business transformation

Achievements

- **Strategic Process Design:** Led the design and implementation of a full robotic production line (FRL) for TV manufacturing, leveraging LEAN methodologies and VSM to reduce operational costs, improve throughput, and enhance overall process efficiency.
- **Cross-Functional Collaboration:** Partnered with design engineering teams to develop and implement new model workflows, ensuring seamless integration of design parameters into operational processes and maintaining alignment with business objectives.
- **Quality Assurance Leadership:** Established robust process control mechanisms to ensure consistent adherence to quality standards, minimizing defects and enhancing customer satisfaction.
- **Team Management & Development:** Led a multidisciplinary team comprising junior engineers, technicians, and operators, providing guidance and oversight during production line studies and process evaluations.
- **Feasibility & Risk Analysis:** Conducted comprehensive feasibility studies for new product introductions, identifying operational constraints and developing mitigation strategies to support successful product launches.
- **Change Management & Governance:** Actively participated in design review and engineering change meetings, contributing to strategic decisions that improved process reliability and adaptability.
- **Operational Efficiency Planning:** Developed and executed manpower planning strategies, optimized line capacity, and monitored output rates to ensure resource efficiency and meet production targets. Regularly conduct Kaizen activities bi-weekly.
- **Global Project Support:** Contributed to plant-level and international quality improvement initiatives, supporting organizational goals related to performance enhancement and compliance.
- **Process Documentation:** Translated complex technical specifications into clear, actionable Standard Operating Procedures (SOPs), enabling consistent execution and facilitating training across teams.
- **Problem Solving & Innovation:** Resolved complex design-related challenges affecting production capabilities, applying analytical thinking and collaborative problem-solving to maintain operational continuity.
- **Project Execution & Reporting:** Delivered project outcomes within defined timelines and budgets, maintaining regular communication with senior management through structured progress reporting.

PAST PROJECTS

Sony City Osaki – Shinagawa, Tokyo

Feb 2023

- New Product Transfer (Soundbar home Theater System) study to be manufactured In Malaysia.
- Engaged in aspects such as manpower, productivity percentage, cost etc.
- Semi-automated line assembly design, setup for Sony Malaysia.

CTTV On Site Support (OSS) – Hanoi, Vietnam

Jun 2022

- Quality Verification and Productivity Enhancement Support.
- Process verification for New Plant Setup.
- Improved current production process to ramp up productivity

Automated In Line Assembly Arrangement

Mar 2019 – Dec 2022

- Lead Engineer for Sony Malaysia Production.
- Successfully built 3 Semi Automated Assembly Lines.
- Proposed, presented and successfully arranged for automation to be introduced in line.
- 3 Simultaneous projects completed within 6 months (Saving Result: RM 2.37m per year)

Sony World Wide Process Improvement

Jan 2020

- Lead Engineer for SOEM Total Innovative Design Architecture (TIDA) Process Arrangement.
- Restructured process arrangement for Sony World Wide TV in line assembly.
- Liaise with Sony HQ Japan for automated assembly processes.

SKILLS, LANGUAGE, AND INTEREST

- **Communication skills:** Excellent
- **Work skills:** Project management, Process improvement, Problem solving, RCA, Leadership, NPI
- **Computer skills:** Microsoft Office, CATIA V5, AutoCAD, Adobe Illustrator
- **Language:** Malay (Fluent written and spoken), English (Fluent written and spoken)
- **Other interest:** Riding, Gunpla assembly, reading and traveling