MANOJKUMAR ALAGESAN

Automotive Quality Consultant & Trainer

Founder, The Kattamaipu Company

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PROFILE

Automotive quality professional with 15+ years across OEM engineering, Tier-1 wiring harness plants and Tier-2 machining and die-casting suppliers. Since 2025, working independently through The Kattamaipu Company, helping automotive suppliers build quality systems that work on the shop floor, not only on paper, and training their teams to run them.

Before consulting, served as Management Representative for IATF 16949, ISO 14001 and ISO 45001 across two plants, and took both plants through certification without external consultants. That experience of running the system from inside the plant, through customer audits, escalations and launches, shapes every assignment.

15+ years
automotive quality: OEM engineering centre, Tier-1 and Tier-2 plants

Lead Auditor Courses Passed
ISO 9001, ISO 14001, ISO 45001(CQI-IRCA certified courses); IATF 16949 with core tools (Exemplar Global)

Lean Six Sigma
Lean Six Sigma Black Belt (Benchmark Six Sigma - Exemplar Global)

CONSULTING SERVICES

- **IATF 16949 implementation:** gap assessment, process mapping, documentation, implementation, internal audits, management review and certification readiness.
- **Automotive Core Tools deployment:** APQP, PPAP, AIAG-VDA PFMEA, Control Plan, SPC and MSA, built with the cross-functional team on real parts and processes.
- **Audits:** internal QMS audits, process audits, product audits, LPA and certification readiness checks against IATF 16949 and customer-specific requirements.
- **Problem solving support:** 8D, root cause analysis and CAPA for customer complaints, with focus on verified root cause and recurrence prevention.
- **Shop-floor management systems:** Daily Work Management (DWM), QRQC, SPQVC KPI reviews, 4M change management and Kaizen / QCC.

TRAINING PROGRAMMES

Area	Programmes
Management systems	IATF 16949 Awareness and Internal Auditor; ISO 9001, ISO 14001, ISO 45001 Internal Auditor
Automotive Core Tools	APQP, PPAP, AIAG-VDA PFMEA and DFMEA, Control Plan, SPC, MSA
Problem solving	7 QC Tools, 8D, Root Cause Analysis, CAPA
Shop-floor excellence	Daily Work Management (DWM), QRQC, Kaizen

Formats: in-plant workshops built around the client's own parts and processes, open classes and online sessions. Delivered directly to companies and in partnership with certification bodies and training institutes.

INDUSTRY AND PROCESS EXPERIENCE

Wiring harness and wire extrusion · CNC / VMC machining · Pressure die casting · Injection moulding · Sheet metal fabrication · Steel and aluminium processing · Assembly

Customer environments: OEM engineering (global wiring design), Tier-1 harness supply to multiple OEMs, Tier-2 machined and die-cast components.

SELECTED RESULTS

- Led IATF 16949 implementation end to end for an automotive component manufacturer, from gap assessment to certification readiness (as consultant, 2025).

- Took two Tier-1 harness plants through IATF 16949, ISO 14001 and ISO 45001 certification without external consulting support.
- Achieved a Hyundai 4+ Star supplier rating in the plant's first-time audit.
- An integrated QRQC system designed and deployed at an OEM engineering centre.

CAREER

The Kattamaipu Company, Chennai Feb 2025 – Present

Founder; Quality, Management Systems & Training Consultant

- Consulting, implementation, audit and training support for automotive Tier-1 and Tier-2 manufacturers.
- Builds the working documents with the client team: process flow, PFMEA, Control Plan, SOPs, work instructions, inspection standards, audit checklists.

Aptiv Components India Pvt. Ltd., Chennai Oct 2020 – Jan 2025

Assistant Manager – QMS / IMS (Management Representative) | Tier-1 wiring harness

- Ran IATF 16949, ISO 14001 and ISO 45001 across two plants; coordinated certification, surveillance, customer and corporate audits.
- Conducted internal, customer, supplier, process, LPA and certification audits and drove NC closure; led PFMEA and Control Plan reviews and built customer-specific requirements into production.
- Deployed DWM, QRQC, SPQVC KPI reviews, 4M change management and visual management; facilitated MRM, Kaizen and QCC.

Renault Nissan Technology & Business Centre India, Chennai Mar 2016 – Jun 2020

Senior Engineer – Quality / Process Improvement | OEM engineering centre

- Owned the defect management process for wiring diagram deliverables, working with engineering teams and Nissan Japan.
- Implemented QRQC and led 8D, RCA and FMEA-based problem solving; ran internal process audits and global KPI dashboards.

Motherson Sumi Systems Ltd., Chennai Sep 2013 – Mar 2016

Engineer – Quality Assurance | Tier-1 wiring harness

- Customer and in-process quality; end-to-end PPAP (PFMEA, Control Plan, MSA, capability studies, PSW); OEM PPM tracking and 8D.

KKR Metal Components, Chennai Jul 2011 – Sep 2013

Engineer – Quality Assurance | Tier-2 machining and die casting

- PPAP documentation, 8D complaint handling, MSA and capability studies for CNC / VMC processes, TS 16949 process and product audits.

CERTIFICATIONS

Certification	Institute | Accreditation	Year
IATF 16949:2016 + Core Tools – Lead QMS Auditor for Automotive	Omnex | Exemplar Global	2019
ISO 9001:2015 QMS Lead Auditor	Quality Austria | IRCA	2024
ISO 14001:2015 EMS Lead Auditor	Quality Austria | IRCA	2024
ISO 45001:2018 OH&S MS Lead Auditor	Quality Austria | IRCA	2024
VDA 6.3 Process Auditor (internal)	TÜV SÜD	2026
Lean Six Sigma Black Belt	Benchmark Six Sigma | Exemplar Global	2018

EDUCATION & LANGUAGES

B.E. Mechanical Engineering – Sudharsan Engineering College, Pudukottai (2011) · **Diploma in Mechanical Engineering** – Dhanalakshmi Srinivasan Polytechnic College, Perambalur (2008) · **Languages:** English, Tamil